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## Introduction

This manual is intended to support staff in caring for patients in Alberta Health Services (AHS) owned and contracted acute care settings who have a known or suspected infectious disease or condition. It is organized in alphabetical order based on either the common or scientific spelling of the disease, condition or microorganism. For settings outside of acute care, including continuing care, corrections and community-based services refer to the <a href="Continuing Care IPC Resource Manual Diseases and Conditions">Conditions Table</a>

The most up-to-date version of the manual is the electronic version on the website. Printed copies of the document should be considered current only on the date printed.

## Instructions

### 1: To view a disease or condition table:

- If you know what you are looking for; click on its first letter in the list below to move to an alphabetical index of diseases and conditions for that letter. Click on the organism or disease you are looking for to view its content.
- If you are unsure what you are looking for; review the Index of Diseases and Conditions on the next pages. Click the organism or disease you would like to see.

## 2: If a disease, condition or microorganism you are looking for is not listed:

• **Follow Routine Practices** and contact Infection Prevention and Control or your Zone Medical Officer of Health or designate as needed for additional information.

#### 3: To access interactive features:

- In the specific disease or condition, click the hyperlink that you would like to view. This will open the **linked** document.
- Routine Practices and Additional Precautions (RPAP) information sheets are linked to this
  document and appear in the tables as follows: Routine Practices; Airborne Precautions;
  Airborne and Contact Precautions; Contact Precautions; Contact and Droplet
  Precautions; Droplet Precautions.
- Other links in this document are underlined.
- Additional Precautions (AP) information sheets are linked to their Precautions sign, Routine
  Practices (RP) information sheet and other information. Links in the RPAP information
  sheets are <u>underlined</u>. Click on the underlined words to access the link.
- RPAP information sheets, signs and additional resources may also be accessed by the links in the left-hand column.

Please contact Infection Prevention and Control (IPC) or your Zone Medical Officer of Health (MOH) or designate with any questions.



## Α

Abscess – (various organisms) Acinetobacter – multidrug resistant (MDRA) Acquired Immunodeficiency Syndrome (AIDS) Actinomycosis (Actinomyces spp.) Adenovirus spp. -Conjunctivitis Cystitis Gastroenteritis Respiratory tract infection Aeromonas spp. Amebiasis – diarrhea (Entamoeba histolytica) **AmpC** Anthrax – laboratory confirmed, probable or suspect case based on clinical symptoms (Bacillus anthracis) Antibiotic-resistant organisms (ARO) -Carbapenemase-producing organisms (CPO) Extended-spectrum Beta-lactamase producers (ESBL) - E. coli, Klebsiella spp., others Methicillin-resistant Staphylococcus aureus (MRSA) Vancomycin-intermediate Staphylococcus aureus (VISA) Vancomycin-resistant Staphylococcus aureus (VRSA) Arthropod-borne virus (Arboviruses) Ascariasis (Ascaris spp.) -Roundworm - ascariasis Hookworm – (Necator americanus, Ancyclostoma duodenale) Aspergillosis (Aspergillus spp.) Astrovirus - diarrhea Avian influenza B Bedbugs (Cimex lectularius, C. hemipterus) BK virus Blastomycosis – pneumonia (Blastomyces dermatitidis), skin lesions



Bordetella pertussis – (whooping cough, pertussis)

Botulism (Clostridium botulinum)

Burkholderia cepacia complex -

Non-respiratory infections

Non-respiratory infections in high-risk patients (Burn unit, BMT/Oncology Unit, ICU, CVICU)

Respiratory infection

Burkholderia pseudomallei (Melioidosis) – (aka Whitmore's disease)

Burns (infected) – (Staphylococcus aureus, Streptococcus Group A, many other bacteria)

## C

Calicivirus (family of viruses that contain norovirus –also known as Norwalk or Norwalk-like virus)

Campylobacter jejuni

Candida auris

Candidiasis (Candida spp.)

Carbapenemase-producing organisms (CPO) – also known as Carbapenem-resistant Enterobacteriaceae (CRE) or Carbapenem-resistant organism (CRO)

Cat-scratch fever (Bartonella henselae)

Cellulitis – (Staphylococcus aureus, Streptococcus Group A, many other bacteria)

Chancroid (Haemophilus ducreyi)

Chickenpox

Chikungunya virus (Arbovirus CHIKV)

Chlamydia (Chlamydia trachomatis) - Lymphogranuloma venereum

Cholera (Vibrio cholerae)

Citrobacter spp., MDR – Carbapenemase-producing organisms (CPO)

Clostridium difficile infection (CDI)

Clostridium perfringens - food poisoning

Clostridium perfringens - gas gangrene

Coccidioidomycosis (Coccidioides immitis)

Congenital rubella

Conjunctivitis – pink eye; bacterial and viral

Coronavirus – (severe acute respiratory syndrome, SARS CoV, Middle East respiratory syndrome, MERS CoV)

Coronavirus - not SARS

Coronavirus - Novel (COVID-19)



Corynebacterium diphtheriae -

Toxigenic strain

Non-toxigenic strain

Diphtheria – cutaneous or pharyngeal

Cough, fever, acute upper respiratory tract infection -

Rhinovirus

Respiratory Syncytial Virus, [RSV]

Parainfluenza virus

Influenza

Adenovirus

Coronavirus

Bordetella pertussis

Mycoplasma pneumoniae

Cough, fever, pulmonary infiltrates in person at risk for tuberculosis (Mycobacterium tuberculosis)

COVID-19

Coxsackievirus disease (Enterovirus and picornaviridae) - hand-foot-mouth disease

Creutzfeldt-Jakob disease – classic (CJD) and variant (vCJD)

Crimean-Congo hemorrhagic fever (arbovirus)

Croup -

Haemophilus influenzae

Mycoplasma pneumoniae

Adenoviruses

Respiratory Syncytial Virus, [RSV]

Influenza virus

Parainfluenza virus

Measles virus

Human metapneumovirus

Cryptococcosis (Cryptococcus neoformans)

Cryptosporidiosis (Cryptosporidium parvum)

Cyclosporiasis (Cyclospora cayetanensis)

Cytomegalovirus

### D

Decubitus ulcer, infected – pressure ulcer (various organisms)

Dengue fever (Arbovirus)



Dermatitis, infected – (various organisms)

Diarrhea – (various organisms)

Diphtheria – cutaneous or pharyngeal

### Ε

Eastern equine encephalitis (Arbovirus)

Ebola viral disease

Echinococcosis/Hydatidosis – (*Echinococcus granulosis, Echinococcus multilocularis*)

E. coli Shiga Toxin Producing

Encephalitis – (Herpes simplex virus [HSV types 1 and 2], enterovirus, arbovirus, and others)

Endometritis (puerperal sepsis) – (*Streptococcus* Group A)

Enterobacter spp., MDR – see Multidrug-resistant (MDR) gram-negative bacilli

Enterobiasis (pinworm) (oxyuriasis, *Enterobius vermicularis*)

Enteroviral infections (echovirus, coxsackie A & B)

Epiglottitis – (Haemophilus influenzae type B [HIB], Streptococcus Group A, Staphylococcus aureus)

Epstein-Barr virus (Human Herpes virus 4)

Erysipelas – (Streptococcus Group A)

Extended-spectrum Beta-lactamase producers (ESBL) – AmpC Beta-lactamase producers (AmpC), E. coli, Klebsiella spp., others

Escherichia coli O157: H7

### F

Febrile respiratory illness, acute respiratory tract infection –

Rhinovirus

Respiratory syncytial virus, [RSV]

Parainfluenza virus

Influenza

Adenovirus

Coronavirus

Bordetella pertussis

Mycoplasma pneumoniae

Fever unknown origin, fever without focus (acute) - (many bacteria, viruses, fungi)

Food poisoning – (Bacillus cereus, Clostridium perfringens, Staphylococcus aureus, Salmonella spp., Vibrio parahaemolyticus, Escherichia coli O157: H7), Listeria monocytogenes, Toxoplasma gondii, Bacillus spp.)



## G

Gas gangrene (Clostridium spp.) GAS - Group A Streptococcus (Streptococcus pyogenes) -Skin infection Invasive GAS (iGAS) Necrotizing fasciitis Scarlet fever Pharyngitis Toxic shock syndrome Gastroenteritis – (several bacteria, viruses, parasites) German measles Giardiasis (Giardia lamblia) Gonococcus (Neisseria gonorrhoeae) Guillain-Barré syndrome Н Haemophilus Influenzae type B (HIB) - invasive disease - Osteomyelitis Hansen's disease Hantavirus Helicobacter pylori Hemolytic uremic syndrome (HUS) – (may be associated with Escherichia coli O157: H7) Hemorrhagic fever acquired in identified endemic geographic location – (Ebola virus, Lassa virus, Marburg virus, others) Hepatitis - A, E Hepatitis – B, C, D, and other unspecified non-A, non-B Herpangina (vesicular pharyngitis) – (enterovirus) Herpes simplex -Mucocutaneous - primary and extensive or disseminated Mucocutaneous - recurrent Neonatal Type 1 (HSV-1) – gingivostomatitis, mucocutaneous Herpes zoster Histoplasmosis (*Histoplasma capsulatum*) Human immunodeficiency virus (HIV)



Human metapneumovirus (HMPV)

## ı

Impetigo – (Staphylococcus aureus, Streptococcus Group A – many other bacteria)

Influenza – new pandemic strain

Influenza – seasonal

Invasive GAS (iGAS)

## J

No organisms at this time

## Κ

Klebsiella spp., MDR - see multidrug-resistant (MDR) gram-negative bacilli

### L

Lassa fever (Lassa virus)

Legionella (Legionella spp.) - Legionnaires' disease

Leprosy (Mycobacterium leprae) – (Hansen's disease)

Leptospirosis (Leptospira spp.)

Lice

Listeriosis (Listeria monocytogenes)

Lyme disease (Borrelia burgdorferi)

Lymphocytic choriomeningitis (LCM) virus

### M

Malaria (*Plasmodium* spp.)

Marburg virus

Measles

Meningitis

Metapneumovirus

Methicillin-resistant Staphylococcus aureus (MRSA)

MERS CoV – (Middle East respiratory syndrome, severe acute respiratory syndrome, SARS CoV, coronavirus)

Molluscum contagiosum (molluscum contagiosum virus)

Mpox (monkeypox)

Mononucleosis

Morganella spp., MDR – see Multidrug-resistant (MDR) gram-negative bacilli

Mucormycosis (phycomycosis, zygomycosis) – (*Mucor* spp., *Zygomycetes* spp., *Rhizopus* spp.)

Multidrug-resistant (MDR)\* gram-negative bacilli



Mumps (mumps virus) - known case, exposed susceptible

Mycobacterium tuberculosis

Mycobacterium – non-tuberculosis (atypical) (e.g., *Mycobacterium avium* complex)

Mycoplasma pneumoniae

### Ν

2019-nCov

Necrotizing enterocolitis

Necrotizing fasciitis

Neisseria gonorrhoeae

Neisseria meningitidis (Meningitis or Invasive Meningococcal Disease)

Nocardiosis (Nocardia spp.)

Norovirus

Novel Coronavirus (COVID-19)

## 0

Orf – parapoxvirus

Otitis, draining (Streptococcus Group A, Staphylococcus aureus, many other bacteria)

### P

Parainfluenza virus

Parvovirus B19 – Fifth disease, erythema infectiosum (rash), aplastic crisis

Pediculosis (Lice) – (*Pediculus humanus, Phthirus pubis*)

**Pertussis** 

Pharyngitis – (Streptococcus Group A, Corynebacterium diphtheriae, many viruses)

Plague – bubonic (Yersinia pestis)

Plague – pneumonic (Yersinia pestis)

Pleurodynia (enterovirus, coxsackie virus)

Pneumocystis jiroveci pneumonia (PJP) – formerly known as P. carinii (PCP)

Pneumonia - bacterial or viral infection

Poliomyelitis

Proteus spp., MDR – see multidrug-resistant (MDR) gram-negative bacilli

Providencia spp., MDR – see multidrug-resistant (MDR) gram-negative bacilli

Pseudomembranous colitis

Pseudomonas aeruginosa (Metallo-carbapenemase producing\*\*)

Psittacosis (ornithosis) – (*Chlamydia psittaci*)



## Q

Q fever (Coxiella burnetii)

## R

Rabies

Rash, petechial or purpuric – (potential pathogen Neisseria meningitidis)

Rash, vesicular – (potential pathogen Varicella virus)

Rat-bite fever -

Actinobacillus – (formerly Streptobacillus moniliformis)

Spirillum minus

Relapsing fever (Borrelia spp.)

Rhinovirus

Rickettsialpox (Rickettsia akari)

Ringworm (tinea) – (*Trichophyton* spp., *Microsporum* spp., *Epidermophyton* spp.)

Rocky mountain spotted fever (Rickettsia rickettsii)

Roseola infantum – Human Herpes virus 6 (HHV6)

Rotavirus

RSV - Respiratory Syncytial Virus

Rubella (German measles) -

Exposed susceptible contact

Acquired

Congenital

Rubeola (measles) – exposed susceptible contact and confirmed diagnosis

### S

Salmonella (Salmonella spp.)

Sapovirus

SARS CoV – (severe acute respiratory syndrome, Coronavirus)

Scabies (Sarcoptes scabiei), Rash – compatible with scabies (Ectoparasite)

Scarlet fever

Schistosomiasis (Schistosoma spp.)

Septic arthritis – (*Haemophilus influenzae* type B [HIB] [possible in non-immune child <5 years of age], *Streptococcus* Group A, *Staphylococcus aureus*, many other bacteria)

Shigella (Shigella spp.)

Serratia spp.



**Shingles** 

Smallpox (variola major virus, variola minor virus)

Sporotrichosis (Sporothrix schenckii)

Staphylococcus aureus - MRSA

Staphylococcus aureus – not MRSA, and other Streptococci, excluding Group A

Pneumonia

Skin infection

Staphylococcal scalded skin syndrome (Ritter's disease)

Stenotrophomonas maltophilia

Streptococcus Group A (GAS)

Streptococcus, Group B (Streptococcus agalactiae)

Streptococcus pyogenes

Streptococcus pneumoniae

Strongyloidiasis (Strongyloides stercoralis)

Syphilis (Treponema pallidum)

## T

Tapeworm (Taenia saginata, Taenia solium, Diphyllobothrium latum, Hymenolepsis nana)

Tetanus (Clostridium tetani)

Toxic shock syndrome

Toxocariasis (Toxocara canis, Toxocara cati)Toxoplasmosis (Toxoplasma gondii)

Trachoma (Chlamydia trachomatis)

Trench fever (Bartonella quintana)

Treponema pallidum

Trichinosis (*Trichinella spiralis*)

Trichomoniasis (Trichomonas vaginalis)

Trichuriasis – whipworm (*Trichuris trichiura*)

Tuberculosis (TB) -

Extrapulmonary (Mycobacterium tuberculosis); (also *M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG*)

Pulmonary disease (Mycobacterium tuberculosis); (also *M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG*)

Non-Pulmonary

Tularemia (Francisella tularenis)

Typhoid or paratyphoid fever (Salmonella typhi, Salmonella paratyphi)



Typhus fever (Rickettsia typhi, Rickettsia prowazekii)

## U

Urinary tract infection

## ٧

Vancomycin-intermediate Staphylococcus aureus (VISA)

Vancomycin-resistant Enterococcus (VRE)

Vancomycin-resistant Staphylococcus aureus (VRSA)

Varicella zoster virus – chickenpox

Chickenpox – exposed susceptible contact

Chickenpox – known case

Varicella zoster virus – Herpes Zoster: Shingles

Shingles - disseminated shingles

Shingles - exposed susceptible contact

Shingles - immunocompromised patient, localized (1 or 2 dermatomes)

Shingles - localized (1 or 2 dermatomes AND lesions that CANNOT be covered with dressings or clothing

Shingles – localized (1 or 2 dermatomes AND lesions that CAN be covered with dressings or clothing

Viral Hemorrhagic fever

### W

West Nile (West Nile virus)

Western equine encephalitis

Whooping cough

Wound infection – (Staphylococcus aureus, Streptococcus Group A, many other bacteria)

Wuhan coronavirus

## X

No organisms at this time

#### Y

Yaws (Treponema pallidum)

Yellow fever

Yersinia enterocolitica, Yersinia pseudotuberculosis

### Z

Zika virus (Flavivirus)

Zoster



## Α

Abscess – (various organisms)

Acinetobacter-multidrug-resistant (MDRA)

Acquired Immunodeficiency Syndrome (AIDS)

Actinomycosis (Actinomyces spp.)

Adenovirus spp. -

Conjunctivitis

Cystitis

Gastroenteritis

Respiratory tract infection

Aeromonas spp.

Amebiasis – diarrhea (Entamoeba histolytica)

AmpC

Anthrax – laboratory confirmed, probable or suspect case based on clinical symptoms (Bacillus anthracis)

Antibiotic-resistant organisms (ARO) -

Carbapenemase-producing organisms (CPO)

Extended-spectrum Beta-lactamase producers (ESBL) – E. coli, Klebsiella spp., others

Methicillin-resistant Staphylococcus aureus (MRSA)

Vancomycin-intermediate Staphylococcus aureus (VISA)

Vancomycin-resistant Staphylococcus aureus (VRSA)

Arthropod-borne virus (Arboviruses)

Ascariasis (Ascaris spp.) -

Roundworm – ascariasis

Hookworm – (Necator americanus, Ancyclostoma duodenale)

Aspergillosis (Aspergillus spp.)

Astrovirus – diarrhea

Avian influenza



Suspected/Known Disease or Microorganism	
Abscess – (various organisms)	
Clinical Presentation	
Abscess	
Infectious Substances	How it is Transmitted
Wound drainage	Direct contact and indirect contact
Precautions Needed*	Routine Practices
	Minor drainage contained by dressing
	Contact Precautions
	Major drainage not contained by dressing
<b>Duration of Precautions</b>	
Until drainage resolved or contained by dressing	
Incubation Period	Period of Communicability
Not applicable	Not applicable
Comments	•
*Precautions required are in addition to <u>Routine Practices</u>	

References: PHAC (2012), CDC (2007)

See specific organism once identified



How it is Transmitted  Mucous membranes or exposure to infected blood or body fluids, sexually transmitted
Routine Practices
Period of Communicability From onset of infection

### **Comments**

• If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations

References: CDC (2007)

## Actinomycosis (Actinomyces spp.)

### **Clinical Presentation**

Cervicofacial, thoracic or abdominal infection

Infectious Substances	How it is Transmitted
Endonous flore	N

Endogenous flora No person-to-person transmission

Precautions Needed Routine Practices

### **Duration of Precautions**

Not applicable

Incubation Period Period of C	ommunicability
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Variable Not applicable

### **Comments**

- Normal flora
- · Infection is usually secondary to trauma

References: PHAC (2012)



Suspected/Known Disease or Microorganism	Conjunctivitis
Adenovirus spp. –	Cystitis <u>Gastroenteritis</u> Respiratory tract infection
Clinical Presentation	
Conjunctivitis:	Swelling, redness and soreness of the whites of the eyes, watery discharge, itching
Cystitis:	Pain/burning during urination, frequency, urgency, suprapubic/back pain
Gastroenteritis:	Diarrhea
Respiratory tract infection:	Fever, cough, runny nose, sore throat, pneumonia
Infectious Substances	How it is Transmitted
Excretions and secretions	Large droplet (respiratory tract infection), Direct contact and indirect contact
Precautions Needed*	
Conjunctivitis:	Contact Precautions
Cystitis:	Routine Practices
Gastroenteritis: ADULT	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment
PEDIATRIC	Contact Precautions

(Continued on next page)



Suspected/Known Disease or Microorganism

Adenovirus spp. –

Conjunctivitis

Cystitis

**Gastroenteritis Respiratory tract infection** 

**Precautions Needed\*** (Continued from previous page)

Respiratory tract infection:	<b>Contact and Droplet Precautions</b>
	E 114 (1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

For adult patients only: Wear fit tested N95 respirator when performing <u>Aerosol-generating medical procedures (AGMPs).</u>\*\*

### **Duration of Precautions**

Conjunctivitis:	Until symptoms resolve
Cystitis:	Not applicable
Gastroenteritis:	Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement OR until patient is continent and has good hygiene
Respiratory tract infection:	Resolution of acute respiratory infection symptoms or return to baseline
Incubation Period  Late in incubation period until 14 days after onset	Period of Communicability Until acute symptoms resolve

### Comments

Note that different strains are responsible for each disease condition

 For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding. Refer to: <u>Infection Prevention and Control Considerations for</u> <u>Immunocompromised Patients</u>

References: PHAC (2012), CDC (2007)



<sup>\*</sup>Precautions required are in addition to Routine Practices

Suspected/Known Disease or Microorganism	
Aeromonas spp.	
Clinical Presentation	
Diarrhea (sometimes called Traveler's Diarrhea)	
Infectious Substances	How it is Transmitted
Feces	Direct contact and indirect contact (fecal-oral)
Precautions Needed*	Contact Precautions
	If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment
Duration of Precautions Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement  OR until petient is centinent and has good bygions.	
OR until patient is continent and has good hygiene	
Incubation Period	Period of Communicability
3-10 days	Until symptoms resolve
Comments	
*Precautions required are in addition to Routine Practices	

References: PHAC (2012)



## Amebiasis – diarrhea (Entamoeba histolytica)

### **Clinical Presentation**

Dysentery, diarrhea and liver abscesses

Infectious Substances Feces	How it is Transmitted Direct contact and indirect contact (fecal-oral)
Precautions Needed*	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment

## **Duration of Precautions**

Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement

OR until patient is continent and has good hygiene

Incubation Period	Period of Communicability
Days to weeks	Until symptoms resolve

## **Comments**

\*Precautions required are in addition to Routine Practices

- Transmission in setting for the mentally challenged and in a family group has been reported
- Use care when handling diapered infants and mentally challenged persons

**References:** PHAC (2012), CDC (2015)



### Suspected/Known Disease or Microorganism

## Anthrax – laboratory confirmed, probable or suspect case based on clinical symptoms (Bacillus anthracis)

### **Clinical Presentation**

Skin lesions or pulmonary symptoms (shortness of breath, discomfort during breathing), fever, loss of appetite, vomiting and diarrhea

Infectious Substances Soil and animals, including livestock; lesion drainage (very rare) Bacillus anthracis spores that are dormant in the environment. Enter animal or human bodies to become activated.	How it is Transmitted No person-to-person transmission, only direct contact from infected animals, animal products or source of spores. Direct Contact: Ingestion of food or drink with spores. Pulmonary inhalation of spores from bioterrorism. Spore entry via cuts/opening in the skin.
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	
Incubation Period	Period of Communicability

1-7 days

May be up to 60 days

Not applicable

#### Comments

- Physician to notify Medical Officer of Health of case by fastest means possible
- Decontamination and post exposure prophylaxis is necessary for exposure to aerosols in the Laboratory setting or from biological bioterrorism
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations

References: PHAC (2012), CDC (2007), CDC (July 2017)



Suspected/Known Disease or Microorganism

## Antibiotic-resistant organisms (ARO) –

<u>Carbapenemase-producing</u>
<u>organisms (CPO)</u>
<u>Methicillin-resistant Staphylococcus</u>
aureus (MRSA)

Vancomycin-intermediate
Staphylococcus aureus (VISA)
Vancomycin-resistant
Staphylococcus aureus (VRSA)

## **Clinical Presentation**

Infection or colonization of any body site

Infectious Substances Infected or colonized secretions/excretions	How it is Transmitted  Direct contact and indirect contact
Precautions Needed*	Contact Precautions

## **Duration of Precautions**

As directed by Infection Prevention and Control

Incubation Period	Period of Communicability
Variable	Variable

### **Comments**

\*Precautions required are in addition to Routine Practices

- · See specific organism once identified
- <u>Extended-spectrum Beta-lactamase producers</u> (ESBL) only requires contact precautions for clusters or outbreaks.

References: PHAC (2012),



## **Arthropod-borne virus (Arboviruses)**

### **Clinical Presentation**

Encephalitis, fever, rash, arthralgia meningitis

Infectious Substances Not applicable	How it is Transmitted Insect borne (vector) Rare person-to-person transmission by transfusion, and for West Nile virus by organ transplant, breast milk or transplacentally.
Precautions Needed	Routine Practices

## **Duration of Precautions**

Not applicable

Incubation Period	<b>Period of Communicability</b>
Variable 3-21 days	

#### Comments

- Several hundred different viruses exist. Most are limited to specific geographic areas.
- Most common North American diseases caused by Arboviruses:
  - Colorado tick fever (reovirus)
  - West Nile encephalitis (flavivirus)
- Other North American Diseases caused by Arboviruses:
  - California encephalitis (bunyavirus)
  - St. Louis encephalitis (flavivirus)
  - Western equine encephalitis (alphavirus)
  - Eastern equine encephalitis (alphavirus)
  - Powassan encephalitis (flavivirus)

References: PHAC (2012)



Suspected/Known Disease or Microorganis	m
Ascariasis ( <i>Ascaris</i> spp.) –	Roundworm – ascariasis Hookworm – ( <i>Necator americanus,</i> <i>Ancyclostoma duodenale</i> )
Clinical Presentation	
Usually asymptomatic	
Infectious Substances	
Roundworm:	Contaminated soil or water
Hookworm:	Larvae in soil
How it is Transmitted	
Roundworm:	Ingestion of infective eggs/larvae No person-to-person transmission
Hookworm:	Acquired from larvae in soil, feces, and other contaminated surfaces through exposed skin, oral ingestion and from mother to fetus / infant No person-to-person transmission
Precautions Needed	Routine Practices

(Continued on next page)



Suspected/Known Disease or Microorganism	
Ascariasis ( <i>Ascaris</i> spp.) –	Roundworm – ascariasis Hookworm – ( <i>Necator americanus,</i>
(Continued from previous page)	Ancyclostoma duodenale)
Incubation Period	Roundworm: 2-8 days
	Hookworm: 4-6 weeks
Period of Communicability	
Not applicable	
Comments  Ova must hatch in soil to become infectious	

References: PHAC (2012), CDC (2007), CDC (2018)

Suspected/Known Disease or Microorganism  Aspergillosis (Aspergillus spp.)		
Clinical Presentation Infection of skin, lung, wound or central nervous s	ystem	
Infectious Substances	How it is Transmitted	
Ubiquitous in nature, particularly in decaying	Inhalation of airborne spores	
material and in soil, air, water and food	No person-to-person transmission	
Precautions Needed*	Routine Practices	
	Airborne and Contact Precautions	
	If massive soft tissue infection with copious drainage and repeated irrigations required	
<b>Duration of Precautions</b>		
Not applicable		
Incubation Period	Period of Communicability	
Variable	Not applicable	

### **Comments**

\*Precautions required are in addition to Routine Practices

 Spores may be present in dust; infection in immunocompromised patients have been associated with exposure to construction dust. Refer to: <u>Infection Prevention and Control Considerations for</u> <u>Immunocompromised Patients</u>

References: PHAC (2012), CDC (2007)



Suspected/Known Disease or Microorganism		
Astrovirus – diarrhea		
Clinical Presentation		
Diarrhea		
Infectious Substances	How it is Transmitted	
Feces	Direct contact and indirect contact (fecal-oral)	
Precautions Needed*	Contact Precautions	
	If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment	
Duration of Precautions		
Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement		
OR until patient is continent and has good hygiene		
Incubation Period	Period of Communicability	
3 – 4 days	Until symptoms resolve	
Comments		

References: PHAC (2012)

\*Precautions required are in addition to Routine Practices



Suspected/Known Disease or Microorganism	
Avian influenza	
Clinical Presentation Respiratory tract infection, conjunctivitis	
Infectious Substances Excreta of birds Possibly human respiratory tract secretions	How it is Transmitted  Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions  Perform an Infection Prevention and Control Risk  Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosol- generating medical procedures (AGMPs).**

### **Duration of Precautions**

Until acute symptoms resolve.

In the case of outbreak, patients are to remain on precautions for 5 days from the onset of acute illness OR until they are over the acute illness and have been afebrile X 48 hours, as indicated by <u>AHS Guidelines for</u> Outbreak Prevention, Control and Management in Acute Care and Facility Living Sites.

Incubation Period	Period of Communicability
7 days or less, often 2-5 days	Unknown

### **Comments**

\*Precautions required are in addition to Routine Practices

- Contact Infection Prevention and Control for discontinuation of precautions
- Most human infections by animal/bird influenza viruses are thought to result from direct contact with infected birds/animals
- For current information on Avian influenza, see Human Health Issues Related to Domestic Avian Influenza in Canada available at <a href="http://www.phac-aspc.gc.ca/influenza/index-eng.php">http://www.phac-aspc.gc.ca/publicat/daio-enia/9-eng.php</a>

References: PHAC (2012), CDC (2017)



<sup>\*\*</sup> For complete list of AGMPs

## Aerosol-Generating Medical Procedure (AGMP)

## **General Information**

This list of procedures was reviewed by an expert working group made up of infection prevention and control physicians, workplace health and safety physicians, infection prevention and control professionals, epidemiologists and respiratory therapists.

- Prior to each patient interaction, the healthcare provider must assess the task, the patient, and the environment by performing an <u>Infection Prevention and Control Risk Assessment (IPC RA)</u>.
- AGMP require an N95 respirator if the adult patient has respiratory illness (RI) of unknown etiology; or confirmed infection with viral respiratory organism, or other emerging/novel respiratory pathogens; or suspected or confirmed viral hemorrhagic fever.
- AGMP require an N95 respirator if the pediatric patient has respiratory illness (RI) of unknown etiology; or confirmed infection with suspected or confirmed influenza (all strains), COVID-19, or other emerging/novel respiratory pathogens; or suspected or confirmed viral hemorrhagic fever.

For a complete list of AGMP and non-AGMP procedures, refer to the **Aerosol-Generating Medical Procedure Guidance Tool** 

## Precautions Needed -

In addition to Routine Practices

## **Contact and Droplet Precautions**

Replace surgical/procedure mask with a fit-tested N95 respirator for AGMP procedure

Refer to <u>Aerosol Generating Medical Procedures</u> (AGMP) in Progress Sign

- Place patient in a private room with hard walls and a door; close door to reduce traffic into the room.
- If available within the care unit, place patient in airborne isolation room (AIR); transport of patient to access AIR is not advisable.
- Ask visitors and non-essential staff to leave the room.
- Replace the surgical/procedure mask with a fittested N95 respirator during the AGMP for all adult patients.
- In pediatrics, there is a paucity of data and therefore N95 respirators are only used with suspected or confirmed influenza (all strains), COVID-19, VHF and emerging viral infections
- There is no settle time required after AGMP is complete.

## Duration of use of N95 -

Until AGMP is complete

**Note**: Any other additional precautions that have been instituted (e.g., droplet, contact and droplet) are to be continued based on symptoms and/or diagnosis.

## В

Bedbugs (Cimex lectularius, C. hemipterus)

**BK Virus** 

Blastomycosis – pneumonia (Blastomyces dermatitidis), skin lesions

Bordetella pertussis – (whooping cough, pertussis)

Botulism (Clostridium botulinum)

Bronchiolitis – (frequently caused by Respiratory Syncytial Virus)

Brucellosis – undulant fever, Malta fever, Mediterranean fever

Burkholderia cepacia complex-

Non-respiratory infections

Non-respiratory infections in high-risk patients (Burn unit, BMT/Oncology Unit, ICU, CVICU)

Respiratory Infection

Burkholderia pseudomallei (Melioidosis) – (aka Whitmore's disease)

Burns (infected) – (Staphylococcus aureus, Streptococcus Group A, many other bacteria)

## Bedbugs (Cimex lectularius, C. hemipterus)

### **Clinical Presentation**

Small, hard, swollen, white welts that become inflamed and itchy. Bites are usually in rows.

### Infectious Substances

Bed clothes, mattresses, headboards, dresser tables, clothing, soft toys, suitcases, purses. Tend to hide in items that are within 2.5M/8ft of where people sleep and come out of hiding after dark.

### How it is Transmitted

Insect borne

Direct contact and indirect contact

No person-to-person transmission, but requires direct personal contact with infested material

### **Precautions Needed**

## **Routine Practices**

### **Duration of Precautions**

Not applicable

## **Incubation Period**

Not applicable

Bites may take 1-14 days to appear

## **Period of Communicability**

Not applicable

### **Comments**

- If it becomes apparent that a patient has bedbugs at home or they are visible on admission, have all belongings that are potentially infested (see Infectious Substances above) placed in sealed plastic bags or taken straight home.
- Refer to the Bedbug Management Protocol for Healthcare Workers

References: PHAC (2012)



Suspected/Known Disease or Microorganism			
BK Virus			
Clinical Presentation			
Fever and non-specific respiratory infection and hemorrhagic and non-hemorrhagic cystitis, pneumonitis, encephalitis, and hepatitis in <u>immunocompromised patients</u> . Possible neoplastic agent.			
Infectious Substances	How it is Transmitted		
Respiratory secretions, transplacental, infected transplanted kidney organs	Direct contact and indirect contact		
	Mother to fetus in utero		
	Transplanted organs		
Precautions Needed	Routine Practices		
Duration of Precautions			
Not applicable			
Incubation Period	Period of Communicability		
Exhibits primary infection in early childhood	Not applicable		
and latent infection later in life			
Comments			

References: IDSA (July 2001), Harvard (2002)



Suspected/Known Disease or Microorganism

## Blastomycosis – pneumonia (*Blastomyces dermatitidis*), skin lesions

### **Clinical Presentation**

Respiratory infection (fever, cold-like symptoms: cough, runny nose, sore throat); pneumonia (shortness of breath, discomfort during breathing).

Skin lesions may develop when the infection disseminates from the lungs. Skin lesions can be nodular, verrucous or ulcerative and typically appear on the face or distal extremities.

Infectious Substances Spores from moist soil	How it is Transmitted Inhalation of spore-laden dust No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	
Incubation Period 21-105 days	Period of Communicability  Not applicable
Comments	1

**References:** PHAC (2012), CDC (2007)



## Bordetella pertussis – (whooping cough, pertussis)

### **Clinical Presentation**

Irritating, violent coughing without inhalation followed by high pitched crowing or "whoop", vomiting after coughing, non-specific respiratory tract infection in infants

Infectious Substances Respiratory secretions	How it is Transmitted Large droplets
Precautions Needed*	<b>Droplet Precautions</b>

## **Duration of Precautions**

Until 3 weeks after onset of paroxysms if not treated or until after 5 days of effective antimicrobial treatment

Incubation Period	Period of Communicability
Average 9-10 days; range of 6-20 days	At onset of mild respiratory tract symptoms (catarrhal stage) until 3 weeks after onset of paroxysms or coughing if not treated

#### Comments

\*Precautions required are in addition to Routine Practices

Consult physician regarding chemoprophylaxis for close contacts

References: PHAC (2012)



1

## Botulism (Clostridium botulinum)

### **Clinical Presentation**

Nausea, vomiting, diarrhea, flaccid paralysis, cranial nerve palsies

Infectious Substances	How it is Transmitted
Toxin producing apores in sail paricultural	Ingestion of approachtovin in

Toxin producing spores in soil, agricultural products, honey, and animal intestine

Ingestion of spores/toxin in contaminated food; wounds contaminated by soil

No person-to-person transmission

Precautions Needed Routine Practices

## **Duration of Precautions**

Not applicable

## Incubation Period Period of Communicability

Variable Not applicable

## **Comments**

- Physician to notify Medical Officer of Health of case by fastest means possible
- May be bioterrorism related

References: PHAC (2012)



Suspected/Known Disease or Microorganism		
Bronchiolitis – (frequently caused by Respiratory Syncytial Virus)		
Clinical Presentation Fever, cough, runny nose, sore throat		
Infectious Substances	How it is Transmitted	
Respiratory secretions	Direct contact, indirect contact and large droplets	
Precautions Needed*		
Bacterial: Routine Practices		
ADULT		
Viral or Unknown:	<b>Contact and Droplet Precautions</b>	
Duration of Precautions		
Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms.		
Incubation Period	Period of Communicability	
Variable	Until acute symptoms resolve	

# **Comments**

\*Precautions required are in addition to Routine Practices

- Contact Infection Prevention and Control for cohorting considerations may cohort individuals infected with the same virus
- Minimize exposure to immunocompromised patients, children with chronic cardiac or lung disease, nephritic syndrome, neonates. These patients should not be cohorted. Refer to: <u>Infection Prevention</u> <u>and Control Considerations for Immunocompromised Patients</u>



Suspected/Known Disease or Microorganism

# Brucellosis – undulant fever, Malta fever, Mediterranean fever

## **Clinical Presentation**

Continued, intermittent or irregular fever, headache, weakness, profuse sweating, arthralgia

## Infectious Substances

Infected animals and tissues such as cattle, sheep, goats, bison, wild hogs, elk, moose and camels and their byproducts such as milk, feces

## How it is Transmitted

Possible direct contact

Acquired from contact through breaks in skin tissues with infected animals or ingestion of unpasteurized dairy products from infected animals

Rarely person-to-person transmission

# **Precautions Needed**

Routine Practices

# **Duration of Precautions**

Not applicable

# **Incubation Period**

Weeks to months

# **Period of Communicability**

Not applicable

#### Comments

References: PHAC (2012), CDC (2010)

Suspected/Known Disease or Microorganism		
Burkholderia cepacia complex -	Non-respiratory infections	
	Non-respiratory infections in high-risk patients (Burn unit, BMT/Oncology unit, ICU, CVICU)	
	Respiratory Infection	
Clinical Presentation		
Non-Respiratory infections:	Based on site of infection. Clinical symptoms may vary including skin and soft-tissue infections, surgical wound infections and UTI infections	
Respiratory infections:	Exacerbation of chronic lung disease in patients with cystic fibrosis	
Infectious Substances		
Non-Respiratory infections:	Potentially skin and body fluids	
Respiratory infections:	Respiratory secretions	
How it is Transmitted		
Non-Respiratory infections:	Direct contact and indirect contact	
Respiratory infections:	Direct contact and indirect contact and large droplets	
Precautions Needed*		
Non-Respiratory infections:	Routine Practices	
Non-Respiratory infections in high-risk patients:	Contact Precautions	
Respiratory infections: (Continued on next page)	Contact and Droplet Precautions	



Burkholderia cepacia complex - Non-respiratory infections

Non-respiratory infections in high-risk patients (Burn unit, BMT/Oncology

Unit, ICU, CVICU)

(continued from previous page)

**Respiratory Infection** 

## **Duration of Precautions**

Non-Respiratory infections:	Not applicable
Non-Respiratory infections in high-risk patients:	As directed by Infection Prevention and Control
Respiratory infections:	As directed by Infection Prevention and Control
Incubation Period Variable	Period of Communicability Variable

# **Comments**

\*Precautions required are in addition to Routine Practices

- Causes infection only in individuals with cystic fibrosis (CF) or chronic granulomatous disease (CGD)
- Do not room with patient with cystic fibrosis (CF) who is not infected or colonized with Burkholderia cepacia

References: CDC (2007), Govan JR, Brown PH, Maddison J, et al. (1993)



# Burkholderia pseudomallei (Melioidosis) – (aka Whitmore's disease)

# **Clinical Presentation**

Ac or localized infections including ulcers, skin abscesses, pulmonary infections (bronchitis and pneumonia), bloodstream and disseminated infections (abscess formation in multiple organs)

ow it is Transmitted
alation or ingestion of contaminated soil, dust or ter or contact through skin abrasions or openings person-to-person transmission
outine Practices

Incubation Period	Period of Communicability
1-21 days but in some cases as long as years	Not applicable

## **Comments**

- Burkholderia pseudomallei is predominately found in tropical regions such as SE Asia and Northern Australia
- Incubation period can depend on inoculum- with high inoculum symptoms can develop in a few hours

References: PHAC (2012), CDC (2016)



# Suspected/Known Disease or Microorganism

# Burns (infected) – (*Staphylococcus aureus*, *Streptococcus* Group A, many other bacteria)

# **Clinical Presentation**

Local signs may include purulent drainage, conversion of a partial-thickness injury to a full-thickness wound, worsening cellulitis of surrounding normal tissue or lab results indicating infection.

Infectious Substances Wound drainage	How it is Transmitted  Direct contact and indirect contact
Precautions Needed*	Routine Practices  Minor drainage contained by dressing
	Contact Precautions  Major drainage not contained by dressing

# **Duration of Precautions**

Until drainage resolved or contained by dressing

Incubation Period	Period of Communicability
Variable	Variable

# **Comments**

\*Precautions required are in addition to Routine Practices

See specific organism once identified



# C

Calicivirus (family of viruses that contain norovirus –also known as Norwalk or Norwalk-like virus)

Campylobacter jejuni

Candida auris

Candidiasis (Candida spp.)

Carbapenemase-producing organisms (CPO) – also known as Carbapenem-resistant Enterobacteriaceae (CRE) or Carbapenem-resistant organism (CRO)

Cat-scratch fever (Bartonella henselae)

Cellulitis – (Staphylococcus aureus, Streptococcus Group A, many other bacteria)

Chancroid (Haemophilus ducreyi)

Chickenpox

Chikungunya virus (Arbovirus CHIKV)

Chlamydia (Chlamydia trachomatis) – Lymphogranuloma venereum

Cholera (Vibrio cholerae)

Citrobacter spp., MDR - Carbapenemase-producing organisms (CPO)

Clostridium difficile infection (CDI)

Clostridium perfringens - food poisoning

Clostridium perfringens - gas gangrene

Coccidioidomycosis (Coccidioides immitis)

Congenital rubella

Conjunctivitis - pink eye; bacterial and viral

Coronavirus – (Severe acute respiratory syndrome, SARS CoV, Middle East respiratory syndrome, MERS CoV)

Coronavirus – not SARS

Coronavirus - Novel (COVID-19)

Corynebacterium diphtheriae -

Toxigenic strain

Non-toxigenic strain

Diphtheria – cutaneous or pharyngeal

Cough, Fever, Acute upper respiratory tract infection –

Rhinovirus

Respiratory syncytial virus, [RSV]

Parainfluenza virus

Influenza



Adenovirus

Coronavirus

Bordetella pertussis

Mycoplasma pneumoniae

Cough, Fever, pulmonary infiltrates in person at risk for tuberculosis (Mycobacterium tuberculosis)

COVID-19

Coxsackievirus disease (Enterovirus and picornaviridae) - Hand-foot-mouth disease

Creutzfeldt-Jakob disease – classic (CJD) and variant (vCJD)

Crimean-Congo hemorrhagic fever (arbovirus)

Croup -

Haemophilus influenzae

Mycoplasma pneumoniae

Adenoviruses

Respiratory Syncytial Virus, [RSV]

Influenza virus

Parainfluenza virus

Measles virus

Human metapneumovirus

Cryptococcosis (Cryptococcus neoformans)

Cryptosporidiosis (Cryptosporidium parvum)

Cyclosporiasis (Cyclospora cayetanensis)

Cytomegalovirus

## Suspected/Known Disease or Microorganism

# Calicivirus (family of viruses that contain norovirus – also known as Norwalk or Norwalk-like virus)

# Clinical Presentation Acute onset nausea, vomiting, diarrhea Infectious Substances Feces, emesis/vomit Precautions Needed\* Contact Precautions Contact and Droplet Precautions if patient is actively vomiting Duration of Precautions

ADULT	Until symptoms have stopped for 48 hours and after at least one normal or formed bowel movement
PEDIATRIC	Extend duration of isolation to 5 days after resolution of symptoms in children
Incubation Period	Period of Communicability
12 hours-4 days	Duration of viral shedding, usually 48 hours after diarrhea resolves

## Comments

\*Precautions required are in addition to Routine Practices

- For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding. Refer to: <u>Infection Prevention and Control Considerations for</u> <u>Immunocompromised Patients</u>
- Common causes of outbreaks. Refer to <u>AHS Guidelines for Outbreak Prevention, Control and</u> Management in Acute Care and Facility Living Sites.



Suspected/Known D	Disease or	Microorganism	ì
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# Campylobacter jejuni

# **Clinical Presentation**

Diarrhea (possibly bloody), abdominal pain and fever

Infectious Substances Feces	How it is Transmitted Direct contact and indirect contact (fecal-oral), and ingestion of contaminated food and water
Precautions Needed*	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment

# **Duration of Precautions**

Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement

OR until patient is continent and has good hygiene

Incubation Period	Period of Communicability
2-5 days	Until symptoms resolve

# Comments

\*Precautions required are in addition to Routine Practices

References: PHAC (2012), CDC (2007)



Suspected/Known Disease or Microorganism	
Candida auris	
Clinical Presentation Infection or colonization at any body site	
Infectious Substances	How it is Transmitted
Skin, infected or colonized secretions, excretions	Direct contact and indirect contact
Precautions Needed*	Contact Precautions Sporicidal Cleaning

# **Duration of Precautions**

At least 2 negative specimens collected at least 1 week apart from all previously positive sites are needed before discontinuing precautions. The patient should not be on antifungal medications active against *C. auris* at the time of these assessments (wait 1 week following antifungal treatment). Assessments should involve testing swabs of the axilla, groin and sites yielding *C. auris* on previous cultures.

Contact Infection Prevention and Control for discontinuation of precautions.

Incubation Period	Period of Communicability
Variable	Variable

# Comments

\*Precautions required are in addition to Routine Practices

C. auris can be misidentified by commercial identification systems such as Vitek-2 and API-20C, C. auris can be correctly identified by MALDI-TOF.

References: Schwartz, I. S., & Hammond, G. W. (2017). First reported case of multidrug-resistant Candida auris in Canada. Canada Communicable Disease Report, 43(7/8), 150.



Suspected/Known Disease or Microorganism

Candidiasis (Candida spp.)

**Clinical Presentation** 

Mucocutaneous lesions, systemic disease

Infectious Substances How it is Transmitted

Mucocutaneous secretions and excretions Not applicable

Precautions Needed Routine Practices

**Duration of Precautions** 

Not applicable

Incubation Period Period of Communicability

Variable Not applicable

**Comments** 

Refer to specific page if organism is identified as Candida auris multidrug-resistant

References: CDC (2007)

Suspected/Known Disease or Microorganism

Carbapenemase-producing organisms (CPO) – also known as Carbapenem-resistant Enterobacteriaceae (CRE) or Carbapenem-resistant organism (CRO)

Gram negative bacilli including the following but not exclusive:

E. coli, <u>Providencia spp.,</u> <u>Morganella spp.,</u> Klebsiella spp., Proteus spp., Salmonella spp.,

Serratia spp., <u>Citrobacter spp.,</u> Hafnia spp.

Enterobacter spp.,

#### **Clinical Presentation**

Infection or colonization of any body site

Infectious Substances	<b>How it is Transmitted</b>
	D:

Precautions Needed\*

Contact Precautions

# **Duration of Precautions**

As directed by Infection Prevention and Control

Incubation Period	Period of Communicability
Variable	Variable

# **Comments**

\*Precautions required are in addition to Routine Practices

- See specific organism once identified
- Any of the above listed organisms if they are reported to be resistant to ≥1 carbapenem antibiotic (i.e., at least one of ertapenem, imipenem, meropenem, or doripenem)
- Lab report may identify organism as CPO, MBL

References: CDC (2011), PHAC (2010)



Suspected/Known	Disease or	Microorganism
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# Cat-scratch fever (Bartonella henselae)

# **Clinical Presentation**

Fever, lymphadenopathy (swelling and pain of the lymph nodes with night sweats and weight loss)

Infectious Substances	How it is Transmitted	
Infected domestic cats	Infection occurs via scratch, bite, lick or other exposure to a cat  No person-to-person transmission	
Precautions Needed	Routine Practices	

# **Duration of Precautions**

Not applicable

Incubation Period	Period of Communicability
16-22 days	Not applicable

**Comments** 



Suspected/Known Disease or Microorganism

# Cellulitis – (Staphylococcus aureus, Streptococcus Group A, many other bacteria)

## **Clinical Presentation**

Inflammation or infection of cellular or subcutaneous tissue

Infectious Substances	How it is Transmitted
Wound drainage if present	Direct contact and indirect conta

## **Precautions Needed\***

Minor drainage contained by dressing	Routine Practices
Major drainage not contained by dressing	Contact Precautions
PEDIATRIC Periorbital cellulitis in children <5 years old may be caused by <i>H. influenzae</i>	Droplet Precautions

# **Duration of Precautions**

Until drainage resolved or contained by dressings

## **PEDIATRIC**

**Periorbital cellulitis** in children <5 years old may be discontinued after 24 hours of effective antimicrobial therapy.

Incubation Period	Period of Communicability
Not applicable	Not applicable

# **Comments**

\*Precautions required are in addition to Routine Practices

See specific organism once identified



Suspected/Known	Disease or	Microorganism
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# Chancroid (Haemophilus ducreyi)

# **Clinical Presentation**

Genital ulcers, papules or pustules

Infectious Substances	How it is Transmitted
Drainage	Sexually transmitted

Precautions Needed	<b>Routine Practices</b>
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# **Duration of Precautions**

Not applicable

Incubation Period	Period of Communicability
3-5 days	As long as ulcerations remain unhealed

# Comments

Chancroid rarely spreads from the genital tract and does not cause systemic disease



Chikungunya virus (Arbovirus CHIKV)  Clinical Presentation  Fever, joint pain, headache, muscle pain, joint swelling and rash		
Infectious Substances Aedes albopictus mosquitoes	How it is Transmitted Insect borne No person-to-person transmission	
Precautions Needed	Routine Practices	
Duration of Precautions Not applicable		
Incubation Period Not applicable	Period of Communicability Not applicable	
Not applicable  Comments		

References: CDC (2007)



# Suspected/Known Disease or Microorganism

# Chlamydia (Chlamydia trachomatis) - Lymphogranuloma venereum

## **Clinical Presentation**

Genital tract infections (cervicitis, urethritis in females, urethritis, epididymitis in males), pneumonia, conjunctivitis, trachoma, inquinal adenopathy

Infectious Substances Conjunctival and genital secretions	How it is Transmitted Sexually transmitted, mother to newborn at birth Trachoma: Direct contact and indirect contact
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	

# **Incubation Period**

Variable

# **Period of Communicability**

As long as organism present in secretions

## Comments

• Physician to Notify Medical Officer of Health

References: PHAC (2012), CDC (2007)

# Cholera (Vibrio cholerae)

# **Clinical Presentation**

Profuse watery diarrhea, nausea with or without vomiting

Infectious Substances	How it is Transmitted
Contaminated food or water, feces	Direct contact, indirect contact and ingestion of contaminated food or water
Precautions Needed*	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment

# **Duration of Precautions**

Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement

OR until patient is continent and has good hygiene

Incubation Period	Period of Communicability
0.5-5 days	Until symptoms resolve

## Comments

\*Precautions required are in addition to Routine Practices

• Physician to Notify Medical Officer of Health of case by fastest means possible

References: CDC (2007), WHO (2017)



# Citrobacter spp., MDR - Carbapenemase-producing organisms (CPO)

# **Clinical Presentation**

Infection or colonization at any body site

Infectious Substances	How it is Transmitted
Infected or colonized secretions, excretions	Direct contact and indirect contact
Precautions Needed*	Contact Precautions

# **Duration of Precautions**

As directed by Infection Prevention and Control

Incubation Period	Period of Communicability
Variable	Variable

## **Comments**

\*Precautions required are in addition to Routine Practices

- Precautions are dependent on organism type and antibiotic susceptibility pattern.
- Lab report may identify organism as a CPO, MBL



# Suspected/Known Disease or Microorganism

# Clostridium difficile infection (CDI) – including Pseudomembranous colitis

# **Clinical Presentation**

Diarrhea, abdominal cramping and discomfort, toxic megacolon, pseudomembranous colitis.

In rare cases, a symptomatic patient will present with ileus or colonic distention.

Infectious Substances Feces	How it is Transmitted Direct contact and indirect contact
Precautions Needed*	Contact Precautions Sporicidal Cleaning

## **Duration of Precautions**

Until symptoms have stopped for 48 hours and after at least one normal or formed bowel movement.

A negative *Clostridium difficile* test is **not** required to discontinue <u>Contact Precautions Sporicidal</u> <u>Cleaning.</u>

Incubation Period	Period of Communicability
Variable	Until symptoms resolve

# Comments

\*Precautions required are in addition to Routine Practices

- Use soap and water for hand washing, alcohol-based hand rubs are not as effective
- Bacterial spores persist in the environment so careful cleaning is required

References: PHAC (2012), CDC (2007), Cohen et al. (2010)



Suspected/Known Disease or Microorganism	
Clostridium perfringens – food poisoning	
Clinical Presentation Gastroenteritis (abdominal pain, severe diarrhea)	
Infectious Substances Feces or soil contaminated food	How it is Transmitted Foodborne No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	
Incubation Period 6-24 (typically 8-12) hours	Period of Communicability Not applicable
Comments	

References: PHAC (2012), CDC (2007)



# Suspected/Known Disease or Microorganism

# Clostridium perfringens – gas gangrene

## **Clinical Presentation**

Breakdown of muscle tissue (myonecrosis). Severe pain, edema, tenderness, pallor, discoloration, hemorrhagic bullae and production of gas at wound site.

Infectious Substances	How it is Transmitted
Feces, soil, water	Infection occurs through contamination of wounds (fractures, cuts, bullet wounds) with soil or any foreign material contaminated with C. perfringens  No person-to-person transmission
Precautions Needed*	Contact Precautions if wound drainage present and not contained by dressing

# **Duration of Precautions**

If on Contact Precautions, discontinue isolation when drainage resolved or contained by dressing.

Incubation Period	Period of Communicability
10 hours-5 days	Not applicable

# **Comments**

\*Precautions required are in addition to Routine Practices

Clinical manifestations of gas gangrene are caused by exotoxins produced by C. perfringens



# Coccidioidomycosis (Coccidioides immitis)

## **Clinical Presentation**

Pneumonia, draining lesions

# Infectious Substances

Spores from soil and dust in endemic areas and exudates from infected host

# How it is Transmitted

Inhalation of spores

No person-to-person transmission

# **Precautions Needed**

**Routine Practices** 

# **Duration of Precautions**

Not applicable

# **Incubation Period**

1-4 weeks

# **Period of Communicability**

Not applicable

#### Comments

- Transmission occurs by inhalation of spores in soil and dust as well as exudates from infected individuals
- Exercise care when changing or discarding dressings, casts or other materials that may be contaminated with exudate



## Suspected/Known Disease or Microorganism

# Congenital rubella

#### Clinical Presentation

Congenital rubella syndrome in the newborn (mild fever, rash with diffuse red spots and skin eruptions of irregular round shapes)

Infectious Substances Urine and nasopharyngeal secretions	How it is Transmitted  Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions

# **Duration of Precautions**

Precautions will be required during any admission during the first year of life unless nasopharyngeal and urine cultures are done at > 3 months of age and are negative

Incubation Period	Period of Communicability
Not applicable	Prolonged shedding in respiratory tract and urine can be up to one year

## Comments

\*Precautions required are in addition to Routine Practices

## Important Note:

- Only immune persons should enter the room
- Proof of immunity includes
  - written documentation of receipt of > 1 dose of a rubella-containing vaccine administered on or after the first birthday, or
  - laboratory evidence of immunity (IgG); or
- Non-immune persons should not enter except in urgent or compassionate circumstances
- If immunity is unknown, assume person is non-immune

References: PHAC (2012), WHO (2012)



Suspected/Known Disease or Microorganism

# Conjunctivitis – pink eye: bacterial and viral

#### Clinical Presentation

Swelling of the conjunctiva, redness and soreness of the whites of the eyes, purulent discharge, itching or irritation. Tends to involve only one eye in bacterial conjunctivitis and both eyes in viral conjunctivitis.

# Infectious Substances

Eye discharge

# How it is Transmitted

Direct contact and indirect contact

# **Precautions Needed\***

**ADULT** 

Bacterial:

**Routine Practices** 

Viral

**Contact Precautions** 

**PEDIATRIC** 

Bacterial:

**Contact Precautions** 

Viral:

**Contact and Droplet Precautions** 

if respiratory symptoms present

# **Duration of Precautions**

## **ADULT**

**Bacterial**: Not applicable

Viral: Until symptoms resolve or a non-viral cause is found

#### **PEDIATRIC**

Bacterial: Until 24 hours of effective antimicrobial therapy completed

Viral: Until symptoms resolve or a non-viral cause is found

(Continued on next page)



Suspected/Known Disease or Microorganism

Conjunctivitis – pink eye: bacterial and viral

(Continued from previous page)

**Incubation Period** 

Bacterial: Variable

Viral:

Adenovirus: 2-14 days Picornavirus (Enterovirus 70 or

coxsackievirus): 24-48hr

**Period of Communicability** 

Bacterial: During active infection

Viral:

Up to 14 days

## Comments

\*Precautions required are in addition to Routine Practices

## **Bacterial:**

- Most common bacterial causes are: Staphylococcus aureus, Haemophilus influenzae, Streptococcus pneumoniae, Moraxella catarrhalis
- Bacterial conjunctivitis is less common in children older than 5 years of age

#### Viral:

- The most common cause of viral conjunctivitis is Adenovirus, followed by Picornavirus, Rubella, Rubeola and Herpesviruses.
- See <u>Adenovirus Conjunctivitis</u> for more information
- See Enterovirus for more information
- See specific organism once identified

References: PHAC (2012), CDC (2007)



# Suspected/Known Disease or Microorganism

# Coronavirus – (Severe acute respiratory syndrome, SARS CoV, Middle East respiratory syndrome, MERS CoV)

## **Clinical Presentation**

Fever cough, runny nose, sore throat, body aches, pneumonia (shortness of breath, discomfort during breathing)

Infectious Substances Respiratory secretions and exhaled droplets and airborne particles	How it is Transmitted Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions  Perform an Infection Prevention and Control Risk Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosol-generating medical procedures (AGMPs).** For more information refer to Interim Guidance-Novel Coronavirus

## **Duration of Precautions**

Duration of precautions will be determined on a case-by-case basis and in conjunction with Infection Prevention and Control, and the Medical Officer of Health.

Incubation Period	Period of Communicability
3-10 days	Unknown / variable

## Comments

\*Precautions required are in addition to Routine Practices

- Physician to Notify Medical Officer of Health of case by fastest means possible
- Contact Infection Prevention and Control for discontinuation of precautions
- Minimize exposure to immunocompromised patients, children with chronic cardiac or lung disease, nephritic syndrome, neonates. These patients should not be cohorted. Refer to: <u>Infection Prevention</u> <u>and Control Considerations for Immunocompromised Patients</u>
- Immunocompromised patient additional precautions need to be maintained for a longer duration due to prolonged viral shedding.



<sup>\*\*</sup> For complete list of AGMPs

# Coronavirus - not SARS

## **Clinical Presentation**

Sore throat, runny nose, coughing, sneezing

Infectious Substances	How it is Transmitted
Respiratory secretions	Direct contact, indirect contact and possible large droplets
Precautions Needed*	Contact and Droplet Precautions

# **Duration of Precautions**

Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms.

Incubation Period	Period of Communicability
2-4 days	Duration of symptoms

#### Comments

\*Precautions required are in addition to Routine Practices

- Contact Infection Prevention and Control for discontinuation of additional precautions
   For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding. Refer to: <u>Infection Prevention and Control Considerations for Immunocompromised Patients</u>
- Minimize exposure to immunocompromised patients, children with chronic cardiac or lung disease, nephritic syndrome, neonates. These patients should not be cohorted.



Suspected/Known Disease or Microorganism		
Corynebacterium diphtheriae –	Toxigenic strain Non-toxigenic strain Diphtheria – cutaneous or pharyngeal	
Clinical Presentation		
Non-toxigenic strain:	Skin or nasopharyngeal ulcerative lesion (lesions are asymmetrical with grayish white membranes surrounded with swelling and redness)	
Diphtheria – cutaneous or pharyngeal:  Toxigenic strain:	Cutaneous (skin) or nasopharyngeal ulcerative lesions. Nasopharyngeal lesions are asymmetric with grayish white membranes.	
Infectious Substances	How it is Transmitted	
Lesion drainage and/or nasopharyngeal secretions	Direct contact, indirect contact and large droplets	
Precautions Needed*		
Toxigenic strain:	Contact and Droplet Precautions	
Non-toxigenic strain:	Routine Practices	
Diphtheria – cutaneous or pharyngeal:	Contact Precautions - Cutaneous  Droplet Precautions - Pharyngeal	
Duration of Precautions		
Toxigenic strain:	Until two cultures from skin lesions and/or both nose and throat cultures are negative	
Diphtheria – cutaneous or pharyngeal:	Until after antimicrobial therapy is complete AND two cultures from skin lesions and/or both nose and throat cultures, collected at least 24 hours apart, are negative	

(Continued on next page)



If untreated, 2 weeks to several months

Suspected/Known Disease or Microorganism		
Corynebacterium diphtheriae –	Toxigenic strain Non-toxigenic strain	
(Continued from previous page)	Diphtheria – cutaneous or pharyngeal	
Incubation Period 2-5 days		
Period of Communicability		
Toxigenic strain:	If untreated, 2 weeks to several months	
	If treated with appropriate antibiotics, 48hr	

# **Comments**

#### All Cases:

\*Precautions required are in addition to Routine Practices

Diphtheria – cutaneous or pharyngeal:

- Physician to Notify Medical Officer of Health of case by fastest means possible
- Cultures should be taken at least 24 hours apart and at least 24 hours after the completion of antimicrobial treatment. If cultures are not available, maintain precautions until 2 weeks after completion of antimicrobial therapy.
- Toxigenic strains produce diphtheria toxin. Not all *Corynebacterium diphtheriae* strains produce this toxin.
- All isolates of *C. diphtheriae* and *Corynebacterium spp.* need to be tested by the laboratory for toxigenicity.

# Diphtheria – cutaneous or pharyngeal:

Consult physician regarding chemoprophylaxis for close contacts

References: PHAC (2012), CDC (2007)



Suspected/Known Disease or Microorganism Rhinovirus Respiratory syncytial virus, [RSV] Cough, Fever, Acute upper Parainfluenza virus respiratory tract infection -Influenza Adenovirus many viruses including: Coronavirus Bordetella pertussis Mycoplasma pneumoniae **Clinical Presentation** Cough, fever, sore throat, runny nose Infectious Substances How it is Transmitted Respiratory secretions Direct contact, indirect contact and large droplets **Precautions Needed\* Contact and Droplet Precautions** AGMP require an N95 respirator if the adult patient has respiratory illness (RI) of unknown etiology; or confirmed infection with viral respiratory organism, or other emerging/novel respiratory pathogens; or suspected or confirmed viral hemorrhagic fever. AGMP require an N95 respirator if the pediatric patient has respiratory illness (RI) of unknown etiology; or confirmed infection with suspected or confirmed influenza (all strains), COVID-19, or other emerging/novel respiratory pathogens; or suspected or confirmed viral hemorrhagic fever. **Droplet Precautions** – Bordetella Pertussis, Mycoplasma pneumoniae **Duration of Precautions** Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms. **Incubation Period Period of Communicability** Variable / Duration of symptoms Variable (Continued on next page)



Suspected/Known Disease or Microorganism

Cough, Fever, Acute upper respiratory tract infection -

many viruses including:

(Continued from previous page)

**Rhinovirus** 

Respiratory syncytial virus, [RSV]

Parainfluenza virus

Influenza Adenovirus

Coronavirus

Bordetella pertussis

Mycoplasma pneumoniae

## **Comments**

\*Precautions required are in addition to Routine Practices See specific organism once identified

- Contact Infection Prevention and Control for cohorting considerations may cohort individuals infected with the same virus once identified
- Minimize exposure of immunocompromised patients, children with chronic cardiac or lung diseases, nephritic syndrome, neonates. These patients **should not** be cohorted. Refer to: <u>Infection Prevention and Control</u> Considerations for Immunocompromised Patients
- Refer to AHS Guidelines for Outbreak Prevention, Control and Management in Acute Care and Facility Living Sites.
- Patients may have prolonged post-viral dry cough for weeks but this may not represent ongoing acute illness
- If TB suspected, see Tuberculosis (TB)



Suspected/Known Disease or Microorganism

# Cough, Fever, Pulmonary infiltrates in person at risk for tuberculosis (*Mycobacterium tuberculosis*)

# **Clinical Presentation**

Fever, weight loss, cough, night sweats, abnormal chest x-ray

Infectious Substances Exhaled airborne particles	How it is Transmitted Airborne
Precautions Needed*	Airborne Precautions

## **Duration of Precautions**

Until tuberculosis is ruled out by another diagnosis that explains the clinical syndrome OR results of three sputum smears for AFB are negative and clinician agrees that TB is no longer being suspected. OR if Confirmed Cases, until:

- 1. Receipt of 2 weeks effective treatment, AND
- 2. Clinical improvement, AND
- 3. Three (3) consecutive negative Acid-Fast Bacilli sputums collected following the Provincial Laboratory's <u>Guide to Services</u> document. If multi-drug-resistant tuberculosis, until culture negative.

Incubation Period	Period of Communicability
Not applicable	Until infectious etiology ruled out
(Continued on next page)	If TB confirmed, while organisms are in sputum



Suspected/Known Disease or Microorganism

# Cough, fever, pulmonary infiltrates in person at risk for tuberculosis (*Mycobacterium tuberculosis*)

(Continued from previous page)

## Comments

\*Precautions required are in addition to Routine Practices

- Physician to Notify Medical Officer of Health of case by fastest means possible
- Young children with tuberculosis are rarely infectious as they usually have a weak cough and do not
  have cavitary disease so may not require Airborne Precautions. Airborne Precautions should be
  implemented until an expert in tuberculosis management deems the patient non-infectious.
- Household/close contacts visiting pediatric patients admitted with suspected or confirmed TB should remain in the patient's room and when leaving the room should wear a procedure mask until active TB disease can be ruled out in the visiting contacts.
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations.
- Air Clearance Time (also known as Discharge Settle Time)

Non-negative pressure rooms:

 Do not admit a new patient into this room for at least 2 hours. If entering room before 2 hours and non-immune, wear an N95 respirator.

Negative pressure rooms:

- Do not admit a new patient into this room for at least 45 minutes. If entering room before 45 minutes, and non-immune, wear an N95 respirator.
- Alternatively, if specific air exchange rates for the room are known, refer to <u>Table 1: Air Clearance Rates</u> to determine air clearance times.



Suspected/Known Disease or Microorganism

# COVID-19 (Novel Coronavirus, 2019-nCoV) - including all variants \*\*INTERIM RECOMMENDATIONS as of October 2023\*\*

#### **Clinical Presentation**

Fever, new onset of cough or worsening chronic cough, new or worsening shortness of breath or difficulty breathing, sore throat, runny nose. Extended symptoms may include chills, painful swallowing, stuffy nose, headache, muscle or joint ache, feeling unwell, fatigue or severe exhaustion, nausea, vomiting, diarrhea or unexpected loss of appetite, loss of sense of smell or taste, conjunctivitis (pink eye). May cause pneumonia, severe acute respiratory syndrome and kidney failure.

Infectious Substances	How it is Transmitted
Respiratory secretions	Droplet, indirect and direct contact.

# **Precautions Needed\***

Full recommendations here

# **Modified Respiratory Precautions**

Perform an Infection Prevention and Control Risk Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosolgenerating medical procedures (AGMPs).\*\*

Door may remain open except during AGMP.

## **Duration of Precautions**

Duration of precautions will be determined on a case-by-case basis, based on Discontinuation of Contact and Droplet Precautions for Suspected or Confirmed COVID-19 Form (21624)

## **Incubation Period**

Symptoms may take up to 14 days to appear after exposure.

# **Period of Communicability**

Unknown

## **Comments**

\*Precautions required are in addition to Routine Practices

- https://www.albertahealthservices.ca/assets/info/ppih/if-ppih-ncov-ed-ucc-triage-algorithm.pdf
- Minimize exposure to immunocompromised patients, children with chronic cardiac or lung disease, nephritic syndrome, neonates. These patients should not be cohorted with others, confirmed positive COVID-19 patients may be cohorted together. (Continued on next page)



Suspected/Known Disease or Microorganism

## COVID-19 (Novel Coronavirus, 2019-nCoV) \*\*INTERIM RECOMMENDATIONS as of October 2023\*\*\*

(Continued from previous page)

- Use <u>Discontinuation of Contact and Droplet Precautions for Suspected or Confirmed COVID-19, Form# 21624</u>. In case of questions, contact Infection Prevention and Control.
- For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding. Refer to: <u>Infection Prevention and Control Considerations for</u> <u>Immunocompromised Patients</u>

WHO <a href="https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/infection-prevention-and-control">https://www.who.int/emergencies/diseases/novel-coronavirus-2019/technical-guidance/infection-prevention-and-control</a>

Public Health Agency of Canada updates <a href="https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection.html">https://www.canada.ca/en/public-health/services/diseases/2019-novel-coronavirus-infection.html</a>

### Suspected/Known Disease or Microorganism

## Coxsackievirus disease (Enterovirus and *Picornaviridae*) – Hand-foot-mouth disease

### **Clinical Presentation**

Fever, meningitis, encephalitis, hemorrhagic conjunctivitis (swelling, redness and soreness of the whites of the eyes, itching, with added damage to the vessel of the eye causing bleeding), lesions or rash to hands, feet and/or buttocks, possible sore throat, vomiting and/or diarrhea may also be present.

Infectious Substances	How it is Transmitted
Respiratory secretions, feces, blister fluid	Direct contact with secretions and indirect contact (fecal-oral)
Precautions Needed*	
ADULT	Routine Practices
PEDIATRIC	Contact Precautions
<b>Duration of Precautions</b>	
ADULT	Not Applicable
PEDIATRIC	Until symptoms are resolved
Incubation Period	Period of Communicability
3-5 days	During acute states of illness, potentially longer if patient remains incontinent
Comments	1

References: PHAC (2012)



\*Precautions required are in addition to Routine Practices

### Suspected/Known Disease or Microorganism

### Creutzfeldt-Jakob disease – classic (CJD) and variant (vCJD)

#### **Clinical Presentation**

Subacute onset of confusion, progressive dementia, chronic encephalopathy

### Infectious Substances

Tissues of infected animals and humans

High Risk Tissues (CJD): Brain including dura mater, spinal cord, eyes

High Risk Tissues (vCJD): Same as CJD but includes tonsils

### **How it is Transmitted**

Contaminated instrumentation (classical), ingestion of central nervous system tissue

### **Precautions Needed**

### Routine Practices

Except special precautions are needed for surgery and autopsy in all suspect cases

### **Duration of Precautions**

Not applicable

#### **Incubation Period**

Months to years

### **Period of Communicability**

Highest level of infectivity during symptomatic illness

### **Comments**

\*Special precautions for surgery and autopsy:

- Immediately consult Infection Prevention and Control if patient requires surgery or invasive procedure(s).
- Information is available on Insite Home > Teams > Clinical Services > Policy Department > AHS Wide Policies > Prion Disease (Creutzfeldt-Jacob Disease) Precautions for the Surgical Patient (Adult or Child)
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations.



### Suspected/Known Disease or Microorganism

### **Crimean-Congo hemorrhagic fever (Arbovirus)**

#### Clinical Presentation

Headache, fever, back pain, joint pain, stomach pain, vomiting, red eyes, red, throat, petechiae, jaundice, mood change, bruising, bleeding.

History of travel and/or contact with persons and non-human primates from endemic countries must be considered at triage.

#### Infectious Substances

Blood and body fluids shed from sick domestic animals and/or humans, tick bite

### **How it is Transmitted**

Direct contact, indirect contact, large droplets and tick bite

#### **Precautions Needed\***

Refer to the <u>Contact and Droplet Precautions</u> <u>Suspect/Confirmed Ebola Virus Disease</u>. Single-patient room and dedicated bathroom is required. Room door to remain closed to limit access to room.

Refer to the <u>PPE Requirements for</u>
<u>Suspect/Confirmed Viral Hemorrhagic Fever</u>
(VHF) (Ebola) for details on donning, doffing and disposal of PPE. Post donning posters for PPE used on the wall of the Donning/Doffing room.

Maintain a log of all people entering the patient's room.

### **Contact and Droplet Precautions**

Perform an Infection Prevention and Control Risk Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosolgenerating medical procedures (AGMPs).\*\*

#### **Duration of Precautions**

Until symptoms resolve and directed by Infection Prevention and Control

#### **Incubation Period**

1-3 days after exposure via tick bite

5-6 days after contact with infected blood or tissue

### **Period of Communicability**

Until all symptoms resolve

(Continued on next page)



Suspected/Known Disease or Microorganism

### Crimean-Congo hemorrhagic fever (Arbovirus)

(Continued from previous page)

#### Comments

\*Precautions required are in addition to Routine Practices

- Physician to notify Medical Officer of Health of case by fastest means possible
- For general information visit the AHS <u>Ebola webpage</u>. Infection Prevention and Control (IPC) &
  Workplace Health and Safety (WHS) Ebola Virus Disease (EVD) Guidance are based on currently
  available scientific evidence and guidelines and are subject to review and change as new information
  becomes available
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations
- \*\* For complete list of AGMPs

### Suspected/Known Disease or Microorganism

### Croup -

Haemophilus influenzae
Mycoplasma pneumoniae
Adenovirus
Respiratory Syncytial Virus, [RSV]

Influenza virus
Aerosol-generating medical
procedures (AGMPs)
Parainfluenza virus
Measles virus
Human metapneumovirus

### **Clinical Presentation**

Fever, runny nose, barking cough, sore throat

Infectious Substances Respiratory secretions	How it is Transmitted  Direct contact, indirect contact and large droplets
Precautions Needed*  (Continued on next page)	<ul> <li>AGMP require an N95 respirator if the adult patient has respiratory illness (RI) of unknown etiology; or confirmed infection with viral respiratory organism, or other emerging/novel respiratory pathogens; or suspected or confirmed viral hemorrhagic fever.</li> <li>AGMP require an N95 respirator if the pediatric patient has respiratory illness (RI) of unknown etiology; or confirmed infection with suspected or confirmed influenza (all strains), COVID-19, or other emerging/novel respiratory pathogens; or suspected or confirmed viral hemorrhagic fever.</li> </ul>

### Suspected/Known Disease or Microorganism

Croup -

<u>Haemophilus influenzae</u>

<u>Mycoplasma pneumoniae</u>

<u>Adenovirus</u>

Respiratory Syncytial Virus, [RSV]

(Continued from previous page)

Influenza virus
Aerosol-generating medical
procedures (AGMPs)
Parainfluenza virus
Measles virus
Human metapneumovirus

**Precautions Needed\*** (continued)

**Droplet Precautions** – Mycoplasma pneumoniae

Airborne Precautions

If Measles (Rubeola) suspected

### **Duration of Precautions**

Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms.

### **Incubation Period**

Variable

**Period of Communicability** 

**Duration of symptoms** 

#### Comments

\*Precautions required are in addition to <u>Routine Practices</u> See specific organism once identified



### Cryptococcus neoformans)

### **Clinical Presentation**

Meningitis (usually in immunocompromised patient), pulmonary cryptococcosis, disseminated crytococcosis

Infectious Substances	How it is Transmitted
Bird droppings	Presumably inhalation of the fungal spores or possibly through infected transplanted organs
	No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions  Not applicable	
Incubation Period	Period of Communicability
Unknown	Not applicable
Comments	,



### Cryptosporidiosis (Cryptosporidium parvum)

### **Clinical Presentation**

Diarrhea, cramps, weight loss, nausea and headaches

Infectious Substances Feces (Fecal oocysts)	How it is Transmitted Direct contact and indirect contact (fecal-oral)
Precautions Needed*	Contact Precautions If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment

### **Duration of Precautions**

Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement

OR until patient is continent and has good hygiene

Incubation Period	Period of Communicability
1-12 days	From onset of symptoms until several weeks after symptoms are resolved

### **Comments**

\*Precautions required are in addition to Routine Practices



### Cyclosporiasis (Cyclospora cayetanensis)

### **Clinical Presentation**

Infectious Substances

Vomiting, diarrhea, weight loss, abdominal pain, nausea, fever, or may be asymptomatic

# Contaminated water, fruits and vegetables. Imported, fresh raspberries, other fruits and lettuce from central America

### **How it is Transmitted**

Fecal-oral ingestion of contaminated food or water
Direct person-to-person transmission unlikely

### **Precautions Needed**

**Routine Practices** 

### **Duration of Precautions**

Not applicable

### **Incubation Period**

2-14 days

### **Period of Communicability**

Not applicable

### **Comments**



### Suspected/Known Disease or Microorganism

### Cytomegalovirus

#### **Clinical Presentation**

Usually asymptomatic; congenital infection, retinitis, disseminated infection in immunocompromised person. Infection may cause a mononucleosis-like-syndrome with prolonged fever (lasting 2-3 weeks), malaise, atypical lymphocytosis, cervical lymphadenitis, mild hepatitis, and encephalitis

### Infectious Substances

Saliva, genital secretions, urine, breast milk, transplanted organs or stem cells, blood products

### How it is Transmitted

Sexual Contact and Direct Contact

Vertical mother to child in utero, at birth or through breast milk

Transfusion, transplantation

### **Precautions Needed**

### **Routine Practices**

#### **Duration of Precautions**

Not applicable

#### **Incubation Period**

Unknown for person-to-person transmission

3-12 weeks for blood transfusions,

1-4 months for tissue transplants

### **Period of Communicability**

**NEONATES**: 5-6 years

ADULTS: Variable, linked to immuno-suppressed

status

#### Comments

- Requires intimate personal contact for transmission
- No additional protective measures are required for pregnant healthcare providers
- Disease is often due to reactivation in the patient rather than transmission of infection



### D

Decubitus ulcer, infected – pressure ulcer (various organisms)

Dengue fever (Arbovirus)

Dermatitis, infected – (various organisms)

Diarrhea – (various organisms)

Diphtheria – cutaneous or pharyngeal

Suspected/Known Disease or Microorganism	
Decubitus ulcer, infected – pressure ulcer (various organisms)	
Clinical Presentation	
Abscess, draining pressure sores	
Infectious Substances	How it is Transmitted
Wound drainage	Direct contact and indirect contact
Precautions Needed*	Routine Practices  Minor draining contained by dragging
	Minor drainage contained by dressing
	Contact Precautions
	Major drainage not contained by dressing
Duration of Precautions Until drainage resolved or contained by dressings	
Incubation Period	Period of Communicability
Not applicable	Not applicable
Comments	
*Precautions required are in addition to Routine Practices	
See specific organism once identified	



Suspected/Known Disease or Microorga	anism	
Dengue fever (Arbovirus)		
Clinical Presentation		
Fever, joint pain, rash		
Infectious Substances	How it is Transmitted	
Infected mosquito saliva	Bite of infected mosquito	
	No person-to-person transmission	
Precautions Needed	Routine Practices	
Duration of Precautions		
Not applicable		
Incubation Period	Period of Communicability	
3-14 days	Not applicable	
Comments		

Suspected/Known Disease or Microorganism  Dermatitis, infected – (various organisms)	
Infectious Substances	How it is Transmitted
Drainage	Direct contact and indirect contact
Precautions Needed*	Routine Practices  Minor drainage contained by dressing
	Contact Precautions  Major drainage not contained by dressing
Duration of Precautions Until symptoms resolve or return to baseline	
Incubation Period	Period of Communicability
Variable	Until infectious etiology ruled out
Comments	

References: PHAC (2012)

\*Precautions required are in addition to Routine Practices.

See specific organism once identified



If compatible with scabies take appropriate precautions pending diagnosis

· has stools that cannot be contained

• has poor hygiene and may contaminate his/her

Suspected/Known Disease or Microorganism	n	
Diarrhea – (various organisms)		
Clinical Presentation Diarrhea		
Infectious Substances Feces	How it is Transmitted  Direct contact and indirect contact (fecal-oral)	
Precautions Needed*	Contact Precautions	

If patient
• is incontinent

environment

### **Duration of Precautions**

Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement

OR until patient is continent and has good hygiene

Incubation Period	Period of Communicability
Variable	Until symptoms resolve OR
	infectious etiology ruled out

### **Comments**

\*Precautions required are in addition to Routine Practices

See specific organism once identified



### E

Eastern equine encephalitis (Arborvirus)

Ebola viral disease

Echinococcosis/Hydatidosis – (Echinococcus granulosis, Echinococcus multilocularis)

E. coli Shiga Toxin Producing

Encephalitis – (Herpes simplex virus [HSV types 1 and 2], Enterovirus, Arbovirus, and others)

Endometritis (puerperal sepsis) – (*Streptococcus* Group A)

Enterobacter spp., MDR – see Multidrug-resistant (MDR) gram-negative bacilli

Enterobiasis (pinworm) (oxyuriasis, Enterobius vermicularis)

Enteroviral infections (Echovirus, Coxsackie A & B)

Epiglottitis – (Haemophilus influenzae type B [HIB], Streptococcus Group A, Staphylococcus aureus)

Epstein-Barr virus (Human Herpes virus 4)

Erysipelas – (Streptococcus Group A)

Extended-spectrum Beta-lactamase producers (ESBL) – AmpC Beta-lactamase producers (AmpC), E. coli, Klebsiella spp., others

Escherichia coli O157: H7

Suspected/Known Disease or Microorganism		
Eastern equine encephalitis (Arbovirus)		
Clinical Presentation		
Fever, encephalomyelitis (headache, chills, vomiting, disorientation, seizures)		
Infectious Substances	How it is Transmitted	
Aedes mosquito bite (virus found in birds, bats, and possibly rodents)	Bite of infected mosquito	
	No person-to-person transmission	
Precautions Needed	Routine Practices	
Duration of Precautions		
Not applicable		
Incubation Period	Period of Communicability	
4-10 days	Not applicable	
Comments		
Physician to Notify Medical Officer of Health of case by fastest means possible		

References: CDC (2007)



### Suspected/Known Disease or Microorganism

### Ebola viral disease

#### **Clinical Presentation**

Fever, myalgias, pharyngitis, nausea, vomiting and diarrhea

Hemorrhagic fever in late clinical presentation

History of travel and/or contact with persons and non-human primates from endemic countries must be considered at triage

#### Infectious Substances

Blood, body fluids and respiratory secretions

### **How it is Transmitted**

Direct contact, indirect contact and large droplets

#### **Precautions Needed**

Refer to the Contact and Droplet Precautions

Suspect/Confirmed Ebola Virus Disease

Single-patient room and dedicated bathroom is required. Room door to remain closed to limit access to room.

Refer to the <u>PPE Requirements for</u>
<u>Suspect/Confirmed Ebola Virus Disease</u> for details on donning, doffing and disposal of PPE. Post donning posters for PPE used on the wall of the Donning/Doffing room.

Maintain a log of all people entering the patient's room.

### Suspect/Confirmed Hemorrhagic Fever

(Ebola) Contact and Droplet Precautions

Perform an Infection Prevention and Control Risk Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosol-generating medical procedures (AGMPs).\*\*

#### **Duration of Precautions**

Until symptoms resolve and directed by Infection Prevention and Control

#### **Incubation Period**

2-21 days

### **Period of Communicability**

Until all symptoms resolve

(Continued on next page)



Suspected/Known Disease or Microorganism

### **Ebola viral disease**

(Continued from previous page)

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Physician to notify Medical Officer of Health of case by fastest means possible
- For general information visit the AHS <u>Ebola webpage</u>. Infection Prevention and Control (IPC) &
  Workplace Health and Safety (WHS) Ebola Virus Disease (EVD) Guidance are based on currently
  available scientific evidence and guidelines and are subject to review and change as new information
  becomes available.
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations
- \*\* For complete list of AGMPs

Suspected/Known Disease or Microorganism

## Echinococcosis/Hydatidosis – (*Echinococcus granulosis, Echinococcus multilocularis*)

### **Clinical Presentation**

Cyst present in various organs, typically asymptomatic except for noticeable mass. Rupture or leaking cysts can cause anaphylactic reactions or even death.

Infectious Substances  Worm eggs in feces from infected dogs.  Contaminated food, soil, and water. Fur may be contaminated.	How it is Transmitted Fecal-oral No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	
Incubation Period 12 months to years	Period of Communicability Not applicable

References: CDC (2007)

**Comments** 



Suspected/Known Disease or Microorganism	
E. coli Shiga Toxin Producing	
Clinical Presentation	
Asymptomatic or various infections	
Infectious Substances	How it is Transmitted
Depends on location of colonized/infected body sites	Direct contact and indirect contact
Precautions Needed	Routine Practices
<b>Duration of Precautions</b>	
As directed by Infection Prevention and Control	
Incubation Period	Period of Communicability
Variable	Variable

### **Comments**

\*Precautions required are in addition to Routine Practices

- Lab report may identify as AmpC or AmpC producing organism
- Lab report may identify as an ESBL or ESBL producing organism
- When clusters or outbreaks occur IPC may initiate
   Contact Precautions



## Encephalitis – (Herpes simplex virus [HSV types 1 and 2], enterovirus, arbovirus, and others)

### **Clinical Presentation**

Acute onset febrile illness with altered level of consciousness, +/- focal neurological deficits and seizures

Infectious Substances	How it is Transmitted
Feces and respiratory secretions	Direct contact, indirect contact and large droplets

### **Precautions Needed\***

ADULT	Routine Practices
PEDIATRIC	Contact and Droplet Precautions

### **Duration of Precautions**

ADULT	Not applicable	
PEDIATRIC	Until specific etiology established	
Incubation Period	Period of Communicability	
Not applicable	ADULT: Not applicable	
	PEDIATRIC: Until specific etiology established	

### **Comments**

\*Precautions required are in addition to Routine Practices

- See specific organism once identified
- May be associated with measles, mumps, Varicella, Mycoplasma pneumoniae, Epstein-Barr virus (EBV)



Suspected/Known Disease or Microorganism		
Endometritis (puerperal sepsis) – (Streptococcus Group A)		
Clinical Presentation		
Abdominal distension or swelling, abnormal vaginal bleeding or discharge, fever, lower abdominal pain		
Infectious Substances	How it is Transmitted	
Not applicable	Not applicable	
Precautions Needed*	Contact and Droplet Precautions	
	if invasive Group A Streptococcus suspected	
<b>Duration of Precautions</b>		
Not applicable		
Incubation Period	Period of Communicability	
Not applicable	Not applicable except for Invasive Group A streptococcus with 24 hours of antimicrobial therapy	

### **Comments**

\*Precautions required are in addition to Routine Practices

References: CDC (2007)

### Enterobiasis (pinworm) (oxyuriasis, *Enterobius vermicularis*)

#### **Clinical Presentation**

Nocturnal perianal itching. Occasionally ulcer-like bowel lesions.

Infectious Substances	How it is Transmitted
-----------------------	-----------------------

Precautions Needed Routine Practices

### **Duration of Precautions**

Not applicable

1-2 months Until host colonization no longer occurs

### **Comments**

- There can be secondary bacterial infection due to the irritation and scratching of the anal area
- All household contacts and caretakers of the infected person should be treated at the same time
- Careful handling of contaminated linens and undergarments

References: CDC (2007)



### Suspected/Known Disease or Microorganism

### **Enteroviral infections (Echovirus, Coxsackie A & B)**

#### **Clinical Presentation**

Respiratory tract infection (fever, cold-like symptoms: cough, runny nose, sore throat), headache, upset stomach, diarrhea or skin infections that appear as a rash, blisters or mouth blisters

Infectious Substances	How it is Transmitted
Respiratory secretions, fecal and infective secretions or blister fluid	Direct contact, indirect contact and droplet
Precautions Needed*	

### **Duration of Precautions**

Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms.

Incubation Period	Period of Communicability	
2-10 days	<b>Contact and Droplet Precautions</b>	
	For adult patients only: Perform an Infection Prevention and Control Risk Assessment (IPC RA) and wear fit-tested N95 respirator when performing Aerosol-generating medical procedures (AGMPs).**resolution of acute respiratory infection symptoms or return to baseline.	

### **Comments**

\*Precautions required are in addition to Routine Practices



### Suspected/Known Disease or Microorganism

## Epiglottitis – (*Haemophilus influenzae* type B [HIB], *Streptococcus* Group A, *Staphylococcus aureus*)

### **Clinical Presentation**

Sore throat, muffling or change in voice, difficulty speaking or swallowing, fever

Infectious Substances Respiratory secretions	How it is Transmitted Direct contact and indirect contact
Precautions Needed*	Droplet Precautions

### **Duration of Precautions**

24 hours of effective antimicrobial therapy for all identified organisms

	Period of Communicability
2-4 days for HIB	Until after 24 hours of effective antimicrobial therapy
1-3 days for Strep A	completed

### **Comments**

\*Precautions required are in addition to Routine Practices

- See specific organism once identified.
- Only invasive Haemophilus influenzae type B is considered a notifiable disease



Suspected/Known Disease or Microorganism			
Epstein-Barr virus – (Human Herpes virus 4)			
Clinical Presentation Infectious mononucleosis; fever, sore throat, lymphadenopathy, splenomegaly, rash			
Infectious Substances How it is Transmitted			
Saliva, transplanted organs and stem cells, blood, semen	Direct oropharyngeal route via saliva; transplantation		
Precautions Needed	Routine Practices		
Duration of Precautions			
Not applicable			
Incubation Period	Period of Communicability		
30-50 days	Prolonged; pharyngeal excretion "may be intermitter or persistent for years"		
Comments			



Suspected/Known Disease or Microorganism			
Erysipelas – (Streptococcus Group A)			
Clinical Presentation			
Purulent inflammation of cellular or subcutaneous ti	ssue		
Infectious Substances How it is Transmitted			
Wound drainage	Direct contact and indirect contact		
Precautions Needed*	Routine Practices		
	Minor drainage contained by dressing		
	Contact Precautions		
	Major drainage not contained by dressing		
Duration of Precautions			
Until drainage resolved or contained by dressing			
Incubation Period	Period of Communicability		
Not applicable	Not applicable		
Comments			
*Precautions required are in addition to Routine Practices			



Suspected/Known Disease or Microorganism

Extended-spectrum Beta-lactamase producers (ESBL) -

AmpC Beta-lactamase producers (AmpC), E. coli, Klebsiella spp., others

### **Clinical Presentation**

Asymptomatic or various infections

Infectious Substances		How it is Transmitted	
	Depends on location of colonized/infected body	Direct contact and indirect co	

sites

indirect contact

**Precautions Needed Routine Practices** 

### **Duration of Precautions**

As directed by Infection Prevention and Control

#### **Incubation Period Period of Communicability**

Variable Variable

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Lab report may identify as AmpC or AmpC producing organism
- Lab report may identify as an ESBL or ESBL producing organism
- When clusters or outbreaks occur IPC may initiate Contact Precautions



### Suspected/Known Disease or Microorganism

### Escherichia coli O157: H7

#### **Clinical Presentation**

Diarrhea, stomach cramps, vomiting, hemolytic uremic syndrome (HUS), thrombotic thrombocytopenic purpura

Infectious Substances Feces	How it is Transmitted Ingestion of contaminated food, direct contact and indirect contact
Precautions Needed*	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment  If HUS: please see Hemolytic-uremic syndrome (HUS)

#### **Duration of Precautions**

Until symptoms have stopped for 48 hours and after at least one normal or formed bowel movement OR patient is continent.

If HUS: Until two (2) successive negative stool samples for E. coli O157: H7 or 10 days after onset of diarrhea and symptoms have resolved.

Incubation Period	Period of Communicability
10 hours to 10 days	Until symptoms resolve

#### **Comments**

\*Precautions required are in addition to Routine Practices

 A wide variety of foods have been associated with E. coli O157:H7 including raw and undercooked beef, unpasteurized apple juice, cider, milk (raw) and raw milk products, untreated drinking water; and contaminated raw uncooked fruit and vegetables.



### F

Febrile respiratory illness, Acute respiratory tract infection -

Rhinovirus

Respiratory syncytial virus, [RSV]

Parainfluenza virus

Influenza

Adenovirus

Coronavirus

Bordetella pertussis

Mycoplasma pneumoniae

Fever unknown origin, fever without focus (acute) – (many bacteria, viruses, fungi)

Food poisoning – (Bacillus cereus, Clostridium perfringens, Staphylococcus aureus, Salmonella spp., Vibrio parahaemolyticus, Escherichia coli O157: H7), Listeria monocytogenes, Toxoplasma gondii, Bacillus spp.)

Suspected/Known Disease or Microorganism

### Febrile respiratory illness, Acute respiratory tract infection –

Rhinovirus
Respiratory Syncytial Virus, [RSV]
Parainfluenza virus

i aranındenza virus

<u>Influenza</u>

Adenovirus
Coronavirus
Bordetella pertussis
Mycoplasma pneumoniae

### **Clinical Presentation**

Fever, cough, runny nose, sneezing

Infectious Substances Respiratory secretions	How it is Transmitted Direct contact, indirect contact and large droplets	
Precautions Needed*	<b>Contact and Droplet Precautions</b>	
	Droplet Precautions - Bordetella pertussis, Mycoplasma pneumonia	

### **Duration of Precautions**

Resolution of acute respiratory infection symptoms or return to baseline. Refer to comments or clinical presentation for examples of symptoms.

	Period of Communicability
Variable	Duration of symptoms

### **Comments**

\*Precautions required are in addition to Routine Practices

- · See specific organism once identified
- Contact Infection Prevention and Control for cohorting considerations may cohort individuals infected with the same virus once identified
- Minimize exposure of immunocompromised patients, children with chronic cardiac or lung disease, nephritic syndrome, neonates. These patients **should not** be cohorted. Refer to: <u>Infection Prevention and Control</u> Considerations for Immunocompromised Patients
- Patients may have prolonged post-viral dry cough for weeks but this may not represent ongoing acute illness



Suspected/Known	Disease	or Micro	organism
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## Fever unknown origin, fever without focus (acute) – (many bacteria, viruses, fungi)

### **Clinical Presentation**

Fever

Infectious Substances	How it is Transmitted
Feces and respiratory secretions	Direct contact and indirect contact

### **Precautions Needed\***

ADULT	Routine Practices
PEDIATRIC	Contact and Droplet Precautions
<b>Duration of Precautions</b>	
ADULT	Not applicable
PEDIATRIC	Variable, depending on etiology
Incubation Period ADULT - Not applicable PEDIATRIC - Variable	Period of Communicability ADULT - Not applicable PEDIATRIC - Variable, depending on etiology of illness

#### **Comments**

\*Precautions required are in addition to Routine Practices

- See specific organism once identified
- For outbreaks: Refer to AHS Guidelines for Outbreak Prevention, Control and Management in Acute
   <u>Care and Facility Living Sites</u>, OR <u>AHS Guidelines for Outbreak Prevention, Control and Management
   in Supportive Living and Home Living Sites</u>.



Suspected/Known Disease or Microorganism

Food poisoning – (Bacillus cereus, <u>Clostridium perfringens</u>, <u>Staphylococcus aureus</u>, <u>Salmonella spp.</u>, Vibrio parahaemolyticus, <u>Escherichia coli O157: H</u>7), <u>Listeria monocytogenes</u>, Toxoplasma gondii, Bacillus spp.)

### **Clinical Presentation**

Nausea, vomiting, diarrhea, abdominal cramps/pain

Infectious Substances	How it is Transmitted
Feces	Foodborne, direct contact and indirect contact (fecal-oral)
Precautions Needed*	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment  Contact and Droplet Precautions  If actively vomiting

### **Duration of Precautions**

Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement

OR until patient is continent and has good hygiene

Incubation Period	Period of Communicability
Not applicable	Variable

#### **Comments**

\*Precautions required are in addition to Routine Practices

· See specific organism once identified



### G

Gas gangrene (Clostridium spp.)

GAS - Group A Streptococcus (Streptococcus pyogenes) -

Skin infection

Invasive iGAS (iGAS)

Necrotizing fasciitis

Scarlet fever

Pharyngitis

Toxic shock syndrome

Gastroenteritis – (several bacteria, viruses, parasites)

German measles

Giardiasis (Giardia lamblia)

Gonococcus (Neisseria gonorrhoeae)

Guillain-Barré syndrome

Suspected/Known Disease or Microorganism		
Gas gangrene ( <i>Clostridium</i> spp.)		
Clinical Presentation		
Crepitus abscesses myonecrosis		
Infectious Substances	How it is Transmitted	
Normal gut flora, soil	No person-to-person transmission	
Precautions Needed*  Contact Precautions		
	if wound drainage present and not contained by dressing	
Duration of Precautions If on Contact Precautions, discontinue isolation	when drainage is contained by dressings	
Incubation Period	Period of Communicability	
Variable	Not applicable	
Comments	,	
*Precautions required are in addition to Routine Practices		

References: PHAC (2012)



Suspected/Known Disease or Microorganism	Skin Infection	Invasive GAS (iGAS)	Scarlet Fever	Pharyngitis	Toxic shock syndrome
GAS – Group A Streptococcus (Streptococcus pyogenes) –					
Clinical Presentation	Wound or burn infection, skin infection, impetigo, cellulitis	Pneumonia, epiglottitis, meningitis, bacteremia, septic arthritis, necrotizing fasciitis, myonecrosis, toxic shock syndrome	Pharyngitis, "slapped cheek" rash, lace-like trunk and extremities rash, arthropathy in adults	Sneezing, coughing, fever, headache, sore throat	High fever, diffuse macular rash, hypotension, multisystem organ involvement
Infectious Substances	Infected body fluids	Respiratory secretions and wound drainage	Respirato	ry secretions	Skin exudates and drainage if wounds or skin lesions present
How it is Transmitted	Direct contact and indirect contact	Direct contact and indirect contact and large droplets	Large droplets	Direct contact and indirect contact and large droplets	Direct contact and indirect contact
Precautions Needed*	Contact Precautions if wound drainage present and not contained by dressing	Contact and Droplet Precautions	ADULT - PEDIATRIC - Contact and Droplet Precautions	ADULT - Droplet Precautions - If unable to cover cough  PEDIATRIC - Contact and Droplet Precautions	Contact Precautions - if wounds or skin lesions present and not contained by dressings
Duration of Precautions	Until 24 hours of effective antimicrobial therapy completed		ADULT - Not applicable  PEDIATRIC - Until 24 hours of effective antimicrobial therapy completed	Variable depending on organism until 24 hours of effective antimicrobial therapy completed	Until drainage is contained
Incubation Period	Variable	Typically 1-3 days 2-5 days Variable			
Period of Communicability	Until 24 hours of effective antimicrobial therapy completed	10-21 days in untreated, uncomplicated cases  Until 24 hours of effective antimicrobial therapy completed	While organism present in respiratory secretions (10-21 days if not treated)  Until 24 hours of effective antimicrobial therapy completed	ADULT - Until acute symptoms resolve  PEDIATRIC - Until acute symptoms resolve  If Group A Streptococcus - Until 24 hours of effective antimicrobial therapy completed	Variable
Comments		Precautions required	are in addition to Routine Practices.		
		Physician to notify Medica	al Officer of Health of case by fastest means	possible	
	<ul> <li>Invasive: (Definition) The presence of a microorganism in an otherwise sterile site. (E.g., bloodstream, cerebrospinal fluid, etc.)</li> </ul>				
	<ul> <li>Exposed contacts of invasive disease may require prophylaxis</li> </ul>				
	<ul> <li>If the patient is deceased, refer to the <u>Alberta Bodies of Deceased Persons Regulations</u>.</li> </ul>				
	<ul> <li>NOTE: All other Streptococcus species are managed with <u>Routine Practices</u></li> </ul>				



Suspected/Known Disease or Microorganism  Gastroenteritis – (several bacteria, viruses, parasites)		
Infectious Substances	How it is Transmitted	
Feces, emesis	Direct contact and indirect contact (fecal-oral)	
Precautions Needed*	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment  Contact and Droplet Precautions	
	If actively vomiting	

Until symptoms have stopped for 48 hours and after at least one normal or formed bowel movement OR patient is continent and infectious cause ruled out

Incubation Period	Period of Communicability
Variable	Until symptoms resolve

#### **Comments**

\*Precautions required are in addition to Routine Practices

- See specific organism once identified
- For outbreaks: Refer to AHS Guidelines for Outbreak Prevention, Control and Management in Acute Care and Facility Living Sites, OR AHS Guidelines for Outbreak Prevention, Control and Management in Supportive Living and Home Living Sites.

References: PHAC (2012), Public Health England (2017)



## Giardiasis (Giardia lamblia)

#### **Clinical Presentation**

Diarrhea, abdominal cramps, bloating, flatulence, dehydration

Infectious Substances Feces	How it is Transmitted Direct contact and indirect contact (fecal-oral)
Precautions Needed*	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment

#### **Duration of Precautions**

Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement

OR until patient is continent and has good hygiene

Incubation Period	Period of Communicability
5-25 weeks	2-6 weeks, may continue for months

#### **Comments**

\*Precautions required are in addition to Routine Practices



Suspected/Known Disease or Microorganism		
Gonococcus (Neisseria gonorrhoeae)		
Clinical Presentation		
Ophthalmia neonatorum, gonorrhea, arthritis, pelvic i	nflammatory disease	
Infectious Substances How it is Transmitted		
Exudates from lesions	Mother to child, sexual contact and rarely direct/indirect contact	
Precautions Needed	Routine Practices	
<b>Duration of Precautions</b>		
Not applicable		
Incubation Period Period of Communicability		
2-7 days May extend for months in untreated individuals		
Comments		

References: PHAC (2012)



Suspected/Known Disease or Microorganism		
Guillain-Barré syndrome		
Clinical Presentation  Acute infective polyneuritis with motor weakness and	l abolition of tendon reflexes	
Infectious Substances How it is Transmitted		
Not applicable	Not applicable	
Precautions Needed	Routine Practices	
<b>Duration of Precautions</b>		
Not applicable		
Incubation Period	Period of Communicability	
Not applicable Not applicable		
	1	

#### **Comments**

May follow within weeks of a respiratory or gastrointestinal infection, e.g., *Mycoplasma pneumoniae*, *Campylobacter jejuni* 

References: CDC (2015)



### Н

Haemophilus Influenzae type B (HIB) - invasive disease - Osteomyelitis

Hansen's Disease

Hantavirus

Helicobacter pylori

Hemolytic uremic syndrome (HUS) – (may be associated with Escherichia coli O157: H7)

Hemorrhagic fever acquired in identified endemic geographic location – (Ebola virus, Lassa virus, Marburg virus, others)

Hepatitis - A, E

Hepatitis – B, C, D, and other unspecified non-A, non-B

Herpangina (vesicular pharyngitis) – (Enterovirus)

Herpes simplex -

Mucocutaneous – primary and extensive or disseminated

Mucocutaneous - recurrent

Neonatal

Type 1 (HSV-1) – gingivostomatitis, mucocutaneous

Herpes zoster

Histoplasmosis (Histoplasma capsulatum)

Human immunodeficiency virus (HIV)

Human metapneumovirus (HMPV)

Suspected/Known Disease or Microorganism			
Haemophilus Influenzae type B (HIB) – invasive disease – Osteomyelitis			
Clinical Presentation			
Haemophilus Influenzae type B (HIB):	Pneumonia, epiglottitis, meningitis, bacteremia, septic arthritis, cellulitis		
Osteomyelitis:	Inflammation, fever, wound drainage		
Infectious Substances Respiratory secretions if HIB	How it is Transmitted Direct contact and large droplets if HIB		
Precautions Needed*			
ADULT	Routine Practices		
PEDIATRIC	Droplet Precautions if HIB suspected or confirmed		
Duration of Precautions			
ADULT	Not applicable		
PEDIATRIC	Until 24 hours of effective antimicrobial therapy completed		
Incubation Period Approximately 2-4 days	Period of Communicability  If HIB, infectious in the week prior to onset of illness and during the illness until treated.  HIB is communicable until 24 hours of effective antimicrobial therapy completed.		

(Continued on next page)



Suspected/Known Disease or Microorganism

## Haemophilus Influenzae type B (HIB) – invasive disease – Osteomyelitis

(Continued from previous page)

#### Comments

\*Precautions required are in addition to Routine Practices

- Physician to Notify Medical Officer of Health of case by fastest means possible
- Consult physician regarding chemoprophylaxis for close contacts <48 months old, who are not immune.</li>
- Household contacts of infected children should also receive prophylaxis
- Masks recommended for visitors who will have extensive close contact with non-immune infants.
- Invasive Haemophilus influenza type B is a notifiable disease

References: CDC (2007) PHAC (2012) PHAC (2014)



Suspected/Known Disease or Microorganism		
Hantavirus		
Clinical Presentation		
Fever, fatigue, muscle aches, pneumonia		
Infectious Substances	How it is Transmitted	
Acquired from inhalation of rodent droppings, urine, and saliva	Except for the Andes hantavirus, the virus does not spread through person-to-person contact	
	Person-to-person transmission is very rare	
Precautions Needed	Routine Practices	
<b>Duration of Precautions</b>	,	
Not applicable		
Incubation Period	Period of Communicability	
Symptoms may develop between 1 and 5 weeks after exposure	Not applicable	
Comments	,	

References: PHAC (2012), CDC (2007)



Physician to notify Medical Officer of Health of case by fastest means possible

Suspected/Known Disease or Microorgani	sm	
Helicobacter pylori		
Clinical Presentation		
Gastritis, duodenal and gastric ulcers		
Infectious Substances	How it is Transmitted	
Stool and gastric biopsies	Direct contact (possibly oral-fecal or fecal-oral)	
	Transmission may also occur through food-borne, airborne, or waterborne pathways, as the water sewage system has been found to be an agent of dissemination	
Precautions Needed	Routine Practices	
<b>Duration of Precautions</b>	·	
Not applicable		
Incubation Period	Period of Communicability	
3-10 days	Not applicable	
Comments		
Humans are likely the major reservoir.		



#### Suspected/Known Disease or Microorganism

## Hemolytic uremic syndrome (HUS) – (may be associated with *Escherichia coli O*157: H7)

#### **Clinical Presentation**

Diarrhea, hemolytic-uremic syndrome (HUS), thrombocytopenia purpura

Symptoms of HUS vary. Patients may present with seizures, stroke, kidney issues, blood transfusion requirements

Infectious Substances Feces and respiratory secretions	How it is Transmitted  Direct contact and indirect contact (fecal-oral)
Precautions Needed*	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment

#### **Duration of Precautions**

If HUS: Until two (2) successive negative stool samples for E. coli O157: H7 or 10 days after onset of diarrhea and symptoms have resolved.

Incubation Period	Period of Communicability
Most <i>E. coli</i> strains, 10 hours to 6 days <i>E. coli</i> O157:H7, 1-10 days	Until 2 stools are negative for <i>E. coli</i> O157:H7 or 10 days after onset of diarrhea

#### Comments

\*Precautions required are in addition to Routine Practices

 A wide variety of foods have been associated with E. coli O157:H7 including raw and undercooked beef, unpasteurized apple juice, cider, milk (raw) and raw milk products, untreated drinking water; and contaminated raw uncooked fruit and vegetables.



#### Suspected/Known Disease or Microorganism

## Hemorrhagic fever acquired in identified endemic geographic location – (Ebola virus, Lassa virus, Marburg virus, others)

#### **Clinical Presentation**

Variable. Often fever, fatigue, dizziness, muscle aches, exhaustion. Signs of bleeding under the skin, internal organs, or other body orifices.

History of travel and/or contact with persons and non-human primates from endemic countries must be considered at triage.

Infectious Substances Blood, bloody body fluids and respiratory secretions	How it is Transmitted Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions  Perform an Infection Prevention and Control Risk  Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosol- generating medical procedures (AGMPs).**

Refer to the <u>Contact and Droplet Precautions Suspect/Confirmed Ebola Virus Disease</u>
Single-patient room and dedicated bathroom is required. Room door to remain closed to limit access to room.

Refer to the <u>PPE Requirements for Suspect/Confirmed Ebola Virus Disease</u> for details on donning, doffing and disposal of PPE. Post donning posters for PPE used on the wall of the Donning/Doffing room. Maintain a log of all people entering the patient's room.

#### **Duration of Precautions**

Until symptoms resolve and directed by Infection Prevention and Control

	Period of Communicability
Variable	Variable

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Physician to Notify Medical Officer of Health of case by fastest means possible
- For general information visit the AHS <u>Ebola webpage</u>. Infection Prevention and Control (IPC) & Workplace Health and Safety (WHS) Ebola Virus Disease (EVD) Guidance are based on currently available scientific evidence and guidelines and are subject to review and change as new information becomes available.
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations
- \*\* For complete list of AGMPs



Suspected/Known Disease or Microorganism	
Hepatitis – A, E	
Clinical Presentation	
Hepatitis, anicteric acute febrile illness	
Infectious Substances	How it is Transmitted
Feces and fecal-contaminated food or water	Direct contact and indirect contact (fecal-oral)
Precautions Needed*	Contact Precautions
	If patient • is incontinent
	<ul> <li>has stools that cannot be contained</li> <li>has poor hygiene and may contaminate his/her environment</li> </ul>
<b>Duration of Precautions</b>	
ADULT	Until one week after onset of jaundice
PEDIATRIC	Children 3-14yrs of age - for 2 weeks after onset of symptoms
	Children >14yrs of age - for 1 week after onset of symptoms
Incubation Period	Period of Communicability
Hepatitis A: 28-30 days (range 15-50 days) Hepatitis E: 26-42 days	Hepatitis A: Two (2) weeks before to one (1) week after onset of symptoms; shedding is prolonged in the newborn (up to 6 months)
	Hepatitis E: fecal shedding continues at least two (2) weeks

(Continued on next page)



#### Suspected/Known Disease or Microorganism

### Hepatitis - A, E

(Continued from previous page)

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Physician to Notify Medical Officer of Health of case by fastest means possible
- Virus excretion in stool has been demonstrated from 1 week prior to onset up to 30 days after the onset of jaundice
- Post-exposure prophylaxis indicated for non-immune contacts with significant exposure to Hepatitis A, if within two weeks of exposure



### Hepatitis – B, C, D, and other unspecified non-A, non-B

#### **Clinical Presentation**

Often asymptomatic; hepatitis

Infectious Substances

Blood and certain body fluids, including saliva,
semen, cerebrospinal fluid, vaginal, synovial,
pleural, peritoneal, pericardial, amniotic fluids

#### How it is Transmitted

Mucosal or percutaneous exposure to infective body fluids includes mom to newborn

#### **Precautions Needed**

#### Routine Practices

Please note: patients in Hemodialysis centers may require additional precautions\*\*

#### **Duration of Precautions**

Not applicable

#### **Incubation Period**

Weeks to 6 months

### **Period of Communicability**

From onset of infection

#### **Comments**

- Physician to Notify Medical Officer of Health of case by fastest means possible
- If the patient is deceased, refer to the <u>Alberta Bodies of Deceased Persons Regulations</u>
- Contact Workplace Health and Safety (WHS) immediately if healthcare provider has percutaneous, non-intact skin or mucous membrane exposure

Refer to: Recommendations for Preventing Transmission of Infections Among Chronic Hemodialysis Patients



<sup>\*\*</sup>Please contact Infection Prevention and Control -

Suspected/Known Disease or Microorganism		
Herpangina (vesicular pharyngitis) – (Enterovirus)		
Clinical Presentation Fever, headache, loss of appetite, sore throat, ule	cers in mouth and throat	
Infectious Substances Feces, respiratory secretions, blister fluid	How it is Transmitted  Direct contact and indirect contact (fecal-oral)	
Precautions Needed*		
ADULT	Routine Practices	
PEDIATRIC	Contact Precautions  If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment	
<b>Duration of Precautions</b>		
ADULT	Not Applicable	
PEDIATRIC	Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement OR until patient is continent and has good hygiene	
Incubation Period 3-6 days for non-poliovirus	Period of Communicability  Duration of symptoms	
Comments		

References: PHAC (2012), CDC (2007)

\*Precautions required are in addition to Routine Practices



Suspected/Known Disease or Microorganism Herpes simplex –	Herpes simplex  Mucocutaneous primary and extensive or disseminated	Herpes simplex  Mucocutaneous – recurrent	Herpes simplex Neonatal	Herpes simplex  Type 1 (HSV-1) – Gingivostomatitis, mucocutaneous
Clinical Presentation	Disseminated or primary and extensive	Not Applicable	Not Applicable	Gingivostomatitis: Fever, redness and swelling of gingivae and oral mucosa, ulcerative lesions  Mucocutaneous: Disseminated or primary and extensive
Infectious Substances	Skin or mucosal lesions, oral secretions, genital secretions	Skin or mucosal lesions, oral secretions	Mucosal lesions; possibly all body secretions and excretions	Oral secretions membranes Skin or mucosal lesions
How it is Transmitted	Direct contact (sexual, mother to child at birth)	Direct contact with herpetic lesions or secretions  Virus may also be shed when patient is asymptomatic	Direc	et contact
Precautions Needed*	Contact Precautions	Routine Practices	Contact Precautions for infants delivered vaginally (or by C-section if membranes have been ruptured more than 4 hours) to women with active genital HSV infections	Contact Precautions
<b>Duration of Precautions</b>	Until lesions resolve	Not Applicable	Birth to 6 weeks of age	Until lesions resolve
Incubation Period	2 days to 2 weeks	Not Applicable	Duration of symptoms, until lesions are dry and crusted Until neonatal HSV infection has been ruled out for asymptomatic exposed infants delivered vaginally (or by C-section if membranes have been ruptured more than 4 hours) to women with active genital HSV infections	2 days to 2 weeks
Period of Communicability	While lesions present	Not Applicable	Duration of symptoms	While lesions present
Comments		utine Practices  d with newborns, children with eczema, burned patie s/healthinfo/ipc/hi-ipc-immunocompromised-patients.		1



nism		
Histoplasmosis (Histoplasma capsulatum)		
How it is Transmitted Inhalation of spores Rarely person-to-person transmission, sometimes occurs with organ transplantation		
Routine Practices		
Period of Communicability		
Not applicable		



### **Human immunodeficiency virus (HIV)**

#### **Clinical Presentation**

Asymptomatic; multiple clinical presentations

# Infectious Substances Blood and body fluids including cerebrospinal fluid, semen, vaginal, synovial, pleural, peritoneal, pericardial, and amniotic fluids and

#### How it is Transmitted

Mucosal or percutaneous exposure to infective body fluids, sexual transmission, mother to child

#### **Precautions Needed**

**Routine Practices** 

#### **Duration of Precautions**

Not applicable

breast milk

#### **Incubation Period**

Weeks to years

### **Period of Communicability**

From onset of infection, until death

#### **Comments**

- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations
- Contact Workplace Health and Safety immediately if healthcare provider has percutaneous, non-intact skin or mucous membrane exposure



### **Human metapneumovirus (HMPV)**

#### **Clinical Presentation**

Cough, fever, nasal congestion, shortness of breath

Infectious Substances Respiratory secretions	How it is Transmitted Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions For adult patients only: Wear fit tested N95 respirator when performing Aerosol-generating medical procedures (AGMPs).**

#### **Duration of Precautions**

Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms.

Incubation Period	Period of Communicability
3-5 days	Duration of symptoms

#### Comments

\*Precautions required are in addition to Routine Practices

- Contact Infection Prevention and Control for discontinuation of precautions
- Minimize exposure to immunocompromised patients, children with chronic cardiac or lung disease, nephritic syndrome, neonates. These patients should not be cohorted. Refer to: <u>Infection Prevention</u> <u>and Control Considerations for Immunocompromised Patients</u>
- Immunocompromised patient additional precautions need to be maintained for a longer duration due to prolonged viral shedding.



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Impetigo – (*Staphylococcus aureus, Streptococcus* Group A – many other bacteria)
Influenza – new pandemic strain
Influenza – seasonal
Invasive GAS (iGAS)



Suspected/Known	Disease or	Microorganism
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## Impetigo – (*Staphylococcus aureus, Streptococcus* Group A – many other bacteria)

#### **Clinical Presentation**

Skin lesions

Infectious Substances	How it is Transmitted
Drainage from lesions	Direct contact and indirect contact
Precautions Needed*	Routine Practices
	Minor drainage contained by dressing
	Contact Precautions  Major drainage not contained by dressing

#### **Duration of Precautions**

Variable

#### **Incubation Period**

Variable, depending on causative organism

### **Period of Communicability**

As long as organism in drainage

#### **Comments**

\*Precautions required are in addition to Routine Practices

See specific organism once identified



### Influenza - new pandemic strain

#### **Clinical Presentation**

Fever, cough, muscle aches, fatigue, sore throat, pneumonia

Infectious Substances Respiratory secretions	How it is Transmitted  Direct contact, indirect contact, droplets and airborne particles
Precautions Needed*	Pandemic Influenza Precautions:
	Perform an Infection Prevention and Control Risk  Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosol- generating medical procedures (AGMPs).**

#### **Duration of Precautions**

Duration of precautions will be determined on a case-by-case basis and in conjunction with Infection Prevention and Control, and the Medical Officer of Health.

#### **Incubation Period**

Unknown, possibly 1-7 days

### **Period of Communicability**

Unknown

#### **Comments**

\*Precautions required are in addition to Routine Practices

- If private room is unavailable, consider cohorting patients during outbreaks
- Minimize exposure to immunocompromised patients, children with chronic cardiac or lung disease, nephritic syndrome, neonates. These patients should not be cohorted. Refer to: <u>Infection Prevention and Control</u> Considerations for Immunocompromised Patients
- Immunocompromised patient additional precautions need to be maintained for a longer duration due to prolonged viral shedding. Contact Infection Prevention and Control for discontinuation of precautions.
- Refer to <u>AHS Guidelines for Outbreak Prevention</u>, <u>Control and Management in Acute Care and Facility Living Sites</u>.
- \*\* For complete list of AGMPs

References: PHAC (2012)



Suspected/Known Disease or Microorganism		
Influenza – seasonal		
Clinical Presentation Fever, cough, muscle aches, fatigue, sore throat, runny nose, sneezing		
Infectious Substances Respiratory secretions	How it is Transmitted Direct contact, indirect contact and large droplets	
Precautions Needed	Contact and Droplet Precautions  Perform an Infection Prevention and Control Risk Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosol-generating medical procedures (AGMPs).**	
Duration of Precautions Until symptom resolution/improvement to pre-existing or new baseline for at least 48 hours. Refer to <u>Discontinuation of Additional Precautions for Suspected or Confirmed Respiratory Virus Infection</u> .		
Incubation Period 1-3 days	Period of Communicability Duration of symptoms	

#### Comments

\*Precautions required are in addition to Routine Practices

- If private room is unavailable, consider cohorting patients during outbreaks
- Minimize exposure of immunocompromised patients, children with chronic cardiac or lung disease, neonates
- Patients may have prolonged post-viral dry cough for weeks but this may not represent ongoing acute illness
- For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding. Refer to: <u>Infection Prevention and Control Considerations for</u> Immunocompromised Patients
- Contact Infection Prevention and Control for discontinuation of precautions
- \*\* For complete list of AGMPs



J

No organisms at this time

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Klebsiella spp., MDR – see Multidrug-resistant (MDR) gram-negative bacilli

L

Lassa fever (Lassa virus)

Legionella (Legionella spp.) – Legionnaires' disease

Leprosy (Mycobacterium leprae) – (Hansen's disease)

Leptospirosis (Leptospira spp.)

Lice

Listeriosis (Listeria monocytogenes)

Lyme disease (Borrelia burgdorferi)

Lymphocytic choriomeningitis (LCM) virus

#### Suspected/Known Disease or Microorganism

### Lassa fever (Lassa virus)

#### **Clinical Presentation**

Gradual onset of fever, malaise, weakness, headache, pharyngitis, cough, nausea and vomiting. Disease may progress to hemorrhaging (in gums, eyes, or nose), respiratory distress, repeated vomiting, facial swelling, pain in the chest, back, and abdomen, shock and deafness.

History of travel and/or contact with persons and non-human primates from endemic countries must be considered at triage.

#### Infectious Substances

Blood and body fluids, respiratory secretions, possibly urine and stool

#### **How it is Transmitted**

Direct contact, indirect contact and large droplets

#### **Precautions Needed\***

Refer to the <u>Contact and Droplet Precautions</u>
<u>Suspect/Confirmed Ebola Virus Disease</u>
Single-patient room and dedicated bathroom is required. Room door to remain closed to limit access to room.

Refer to the <u>PPE Requirements for Suspect/Confirmed Ebola Virus Disease</u> for details on donning, doffing and disposal of PPE. Post donning posters for PPE used on the wall of the Donning/Doffing room.

Maintain a log of all people entering the patient's room.

#### **Contact and Droplet Precautions**

Perform an Infection Prevention and Control Risk Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosolgenerating medical procedures (AGMPs).\*\*

#### **Duration of Precautions**

Until symptoms resolve and directed by Infection Prevention and Control

#### **Incubation Period**

5-21 days

### **Period of Communicability**

Until 3-9 weeks after onset

(Continued on next page)



Suspected/Known Disease or Microorganism

### Lassa fever (Lassa virus)

(Continued from previous page)

#### Comments

\*Precautions required are in addition to Routine Practices

- Physician to Notify Medical Officer of Health of case by fastest means possible
- For general information visit the AHS Ebola webpage.
- Infection Prevention and Control (IPC) & Workplace Health and Safety (WHS) Ebola Virus Disease (EVD) Guidance are based on currently available scientific evidence and guidelines and are subject to review and change as new information becomes available
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations
- \*\* For complete list of AGMPs



Suspected/Known	Disease or	Microorganism
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## Legionella (Legionella spp.) – Legionnaires' disease

#### **Clinical Presentation**

Severe pneumonia, muscle aches, tiredness, headaches, dry cough and fever

Sometimes diarrhea occurs and confusion may develop

Infectious Substances	How it is Transmitted
Contaminated water	Acquired from contaminated water by inhalation or aspiration
	No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Procautions	

#### **Duration of Precautions**

Not applicable

Incubation Period Period of Communicability

2-14 days

Period of Communicability

Not applicable

#### **Comments**



Suspected/Known Disease or Microorganis	sm
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### Leprosy (Mycobacterium leprae) – Hansen's disease

#### **Clinical Presentation**

Chronic disease of skin, nerves, joints, and nasopharyngeal mucosa; loss of sensation on affected areas of skin

Infectious Substances	How it is Transmitted
Nasal and respiratory secretions	Direct contact (requires prolonged and extensive personal contact)
Precautions Needed	Routine Practices

#### **Duration of Precautions**

Not applicable

Incubation Period	Period of Communicability
1-20 years	Until treatment is established

#### **Comments**



Suspected/Known Disease or Microorganism		
Leptospirosis (Leptospira spp.)		
Clinical Presentation		
Fever, jaundice, aseptic meningitis, headache, chills, muscle pain		
Infectious Substances	How it is Transmitted	
Leptospires may be excreted in urine for usually 1 month but has been observed as long as 11 months after the acute illness	Through skin contact with urine or tissues of infected animals or water contaminated with the urine of infected animals	
	Rare person-to-person transmission	
Precautions Needed	Routine Practices	
Duration of Precautions		
Not applicable		
Incubation Period	Period of Communicability	
2-26 days	Not applicable	
Comments		



### Listeriosis (Listeria monocytogenes)

#### **Clinical Presentation**

Fever, muscle aches, meningitis, diarrhea/gastrointestinal symptoms, congenital or neonatal infection

Infectious Substances	How it is Transmitted
Contaminated food	Foodborne: Acquired from ingestion of contaminated food
	Congenital transmission: mother to fetus in utero or newborn at birth
	Rare person-to-person transmission
Precautions Needed	Routine Practices

#### **Duration of Precautions**

Not applicable

## Incubation Period Period of Communicability Average 21 days Not applicable

#### **Comments**

- Physician to Notify Medical Officer of Health
- Rare nosocomial outbreaks reported in newborn nurseries attributed to contaminated equipment or materials
- Although relatively rare, human listeriosis is often severe and mortality rates can approach 50% <a href="https://www.canada.ca/en/public-health/services/laboratory-biosafety-biosecurity/pathogen-safety-data-sheets-risk-assessment/listeria-monocytogenes.html">https://www.canada.ca/en/public-health/services/laboratory-biosafety-biosecurity/pathogen-safety-data-sheets-risk-assessment/listeria-monocytogenes.html</a>



### Lyme disease (Borrelia burgdorferi)

#### **Clinical Presentation**

Fever, arthritis, meningitis, headache, fatigue, characteristic skin rash called erythema migraines

Infectious Substances	How it is Transmitted
Infected tick bite	Tick-borne (blacklegged or deer ticks)
	No person-to-person transmission
Precautions Needed	Routine Practices

#### **Duration of Precautions**

Not applicable

#### **Incubation Period**

Rash occurs in 3-30 days after exposure

### **Period of Communicability**

Not applicable

#### **Comments**

- Physician to Notify Medical Officer of Health.
- Infection in humans is incidental and is acquired most frequently during blood feeding by the infected tick. In most cases, the tick must be attached for 36-48 hours or more before the Lyme disease bacterium can be transmitted. Infected people are often unaware that they have been bitten.



### Lymphocytic choriomeningitis (LCM) virus

#### **Clinical Presentation**

Fever, cough, malaise, myalgia, headache, photophobia, nausea, vomiting, adenopathy, and sore throat. Progression to meningitis, encephalitis, meningoencephalitis

Infectious Substances	How it is Transmitted
	Through skin or mucous membrane contact with rodents, inhalation of aerosolised virus (through dust), ingestion of contaminated food
	Congenital transmission: mother to fetus in utero
	No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions	

Not applicable

Incubation Period	Period of Communicability
8-13 days, 15-21 days before any meningeal symptoms appear	Not applicable

#### Comments



#### M

Malaria (*Plasmodium* spp.)

Marburg virus

Measles

Meningitis

Metapneumovirus

Methicillin-resistant Staphylococcus aureus (MRSA)

MERS CoV – (Middle East respiratory syndrome, severe acute respiratory syndrome, SARS CoV, coronavirus)

Molluscum contagiosum (molluscum contagiosum virus)

Mpox (monkeypox)

Mononucleosis

Morganella spp., MDR – see Multidrug-resistant (MDR) gram-negative bacilli

Mucormycosis (phycomycosis, zygomycosis) – (*Mucor* spp., *Zygomycetes* spp., *Rhizopus* spp.)

Multidrug-resistant (MDR)\* gram-negative bacilli

Mumps (mumps virus) - Known case, Exposed susceptible

Mycobacterium tuberculosis

Mycobacterium – non-tuberculosis (atypical) (e.g., *Mycobacterium avium* complex)

Mycoplasma pneumoniae



### Malaria (*Plasmodium* spp.)

#### **Clinical Presentation**

Fever, chills, body aches, headache, general malaise (these are symptoms common to a range of infections, recent travel history must be considered)

Infectious Substances	How it is Transmitted
Blood	Mosquito bite
	Rare person-to-person transmission
Precautions Needed	Routine Practices

#### **Duration of Precautions**

Not applicable

Incubation Period	Period of Communicability
Variable	Not applicable

#### **Comments**

- Infection in humans is incidental and is acquired most frequently during blood feeding by the infected mosquito
- Can be transmitted via blood transfusion
- Physician to Notify Medical Officer of Health



#### Suspected/Known Disease or Microorganism

### Marburg virus

#### **Clinical Presentation**

Fever, myalgias, pharyngitis, nausea, vomiting and diarrhea. Maculopapular rash after day 5 of onset of symptoms and Hemorrhagic fever in late clinical presentation.

History of travel and/or contact with persons and non-human primates from endemic countries must be considered at triage.

#### **Infectious Substances**

Blood, body fluids and respiratory secretions

#### **How it is Transmitted**

Direct contact, indirect contact and large droplets

#### **Precautions Needed\***

Refer to the <u>Contact and Droplet Precautions</u>
<u>Suspect/Confirmed Ebola Virus Disease</u>
Single-patient room and dedicated bathroom is required. Room door to remain closed to limit access to room.

Refer to the <u>PPE Requirements for</u> <u>Suspect/Confirmed Ebola Virus Disease</u> for details on donning, doffing and disposal of PPE. Post donning posters for PPE used on the wall of the Donning/Doffing room.

Maintain a log of all people entering the patient's room.

#### **Contact and Droplet Precautions**

Perform an Infection Prevention and Control Risk Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosolgenerating medical procedures (AGMPs).\*\*

#### **Duration of Precautions**

Until symptoms resolve and directed by Infection Prevention and Control

#### **Incubation Period**

5-10 days

### **Period of Communicability**

Until all symptoms resolve

(Continued on next page)



Suspected/Known Disease or Microorganism

### **Marburg virus**

(Continued from previous page)

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Physician to notify Medical Officer of Health of case by fastest means possible
- For general information visit the AHS Ebola webpage
- Infection Prevention and Control (IPC) & Workplace Health and Safety (WHS) Ebola Virus Disease (EVD) Guidance are based on currently available scientific evidence and guidelines and are subject to review and change as new information becomes available
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations



<sup>\*\*</sup> For complete list of AGMPs

**Suspected/Known Disease or Microorganism** 

Meningitis

BACTERIAL:

Neisseria meningitidis,

Various causative agents:

H. influenzae type B (possible in non-

immune infant younger than 2 years

Until symptoms resolved or enterovirus ruled out

VIRAL: Enterovirus, Arbovirus Streptococcus pneumoniae,

Streptococcus Group B.

FUNGAL: <u>Cryptococcus neoformans</u>, <u>Listeria monocytogenes</u>,

Histoplasma capsulatum E. coli and other Gram-negative rods,

Mycobacterium tuberculosis

#### **Clinical Presentation**

Info attaces Outs at a second

Acute onset of meningeal symptoms commonly including headache, photophobia, stiff neck, vomiting, fever, and/or rash

Intectious Substances	How it is Transmitted
Respiratory secretions and Feces (in viral	Bacterial: Direct contact; droplet
meningitis)	Viral: Direct and indirect contact (including fecal/oral)

### **Precautions Needed\***

ADULT	Routine Practices - confirmed viral
	<b>Droplet Precautions</b> – cause unknown or Bacterial or confirmed <i>Neisseria meningitidis</i>
PEDIATRIC	Contact Precautions – confirmed viral  Contact and Droplet Precautions – cause unknown or Bacterial
<b>Duration of Precautions</b>	
Bacterial	Until 24 hours of effective antimicrobial therapy completed

(Continued on next page)

**Viral: PEDIATRIC** 



Suspected/Known Disease or Microorganism

Meningitis

BACTERIAL:

Neisseria meningitidis,

Various causative agents:

H. influenzae type B (possible in non-

immune infant younger than 2 years

VIRAL: Enterovirus, Arbovirus <u>Streptococcus pneumoniae</u>,

Streptococcus Group B,

FUNGAL: Cryptococcus neoformans, <u>Listeria monocytogenes</u>,

Histoplasma capsulatum E. coli and other Gram-negative rods,

Mycobacterium tuberculosis

(Continued from previous page)

Incubation Period Period of Communicability

Variable Variable

#### Comments

\*Precautions required are in addition to Routine Practices

- See specific organism once identified. For Mycobacterium tuberculosis meningitis rule out associated respiratory TB
- May be associated with measles, mumps, varicella, or herpes simplex. If identified, take appropriate
  precautions for associated disease
- Physician to Notify Medical Officer of Health



Suspected/Known Disease or Microorganism	
Methicillin-resistant Staphylococcus aureus (MRSA)	
Clinical Presentation Asymptomatic or various infections of skin, soft tissue, pneumonia, bacteremia, urinary tract, etc.	
Infectious Substances	How it is Transmitted
Infected or colonized secretions/excretions Respiratory secretions if pneumonia	Direct contact and indirect contact, and large droplets (if pneumonia)
Precautions Needed*	Contact Precautions
	Contact and Droplet Precautions
	if patient has active MRSA pneumonia
Duration of Precautions	
As directed by Infection Prevention and Control	
Incubation Period	Period of Communicability
Variable	Variable
Comments	
*Precautions required are in addition to <u>Routine Practices</u>	



### MERS CoV – (Middle East respiratory syndrome, Coronavirus)

#### **Clinical Presentation**

Fever, cough, runny nose, sore throat, body aches, pneumonia (shortness of breath, discomfort during breathing)

Infectious Substances Respiratory secretions	How it is Transmitted Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions  Perform an Infection Prevention and Control Risk  Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosol- generating medical procedures (AGMPs).** For more information refer to Interim Guidance-Novel Coronavirus

#### **Duration of Precautions**

Duration of precautions will be determined on a case-by-case basis and in conjunction with Infection Prevention and Control, and the Medical Officer of Health

Incubation Period	Period of Communicability
14 days	Unknown / variable

#### **Comments**

\*Precautions required are in addition to Routine Practices.

- Physician to Notify Medical Officer of Health of case by fastest means possible
- Contact Infection Prevention and Control for discontinuation of additional precautions
  - Minimize exposure to immunocompromised patients, children with chronic cardiac or lung disease, nephritic syndrome, neonates. These patients should not be cohorted. Refer to: <u>Infection Prevention</u> and Control Considerations for Immunocompromised Patients
- Immunocompromised patient additional precautions need to be maintained for a longer duration due to prolonged viral shedding.
- \*\* For complete list of AGMPs

References: Interim Guidance-Novel Coronavirus



Suspected/Known Disease or Microorganism  Molluscum contagiosum (molluscum contagiosum virus)	
Clinical Presentation Umbilical papules (small raised, pearly papules with a central depression)	
Infectious Substances	How it is Transmitted
Contents of the papules	Direct contact, including sexual contact, or fomites
Precautions Needed	Routine Practices
Duration of Precautions	
Not applicable	
Incubation Period	Period of Communicability
1 week to 6 months	Unknown
Comments	



Suspected/Known Disease or Microorganism	
Mpox (monkeypox)	
Clinical Presentation Resembles smallpox, swollen lymph nodes	
Infectious Substances	How it is Transmitted
Infected blood and body fluids, pox secretions	Bite from infected animal or direct contact with their blood, body fluid or rash
Precautions Needed*	Modified Respiratory Precautions
Duration of Precautions As directed by Infection Prevention and Control	
Incubation Period	Period of Communicability
7-17 days	until the scab crusts have fallen off (about 3-4 weeks) and new skin has formed

### **Comments**

- \*Precautions required are in addition to Routine Practices
- Physician to notify Medical Officer of Health of case by fastest means possible
- Transmission in hospital settings unlikely
- CDC: Monkeypox | Poxvirus | CDC (2022)
- Monkeypox (orthopoxvirus simian) (2022)

References: PHAC (2012)



## Mucormycosis (phycomycosis, zygomycosis) – (*Mucor* spp., *Zygomycetes* spp., *Rhizopus* spp.)

#### **Clinical Presentation**

Lung, skin, wound, rhino-cerebral infection

Infectious Substances	How it is Transmitted
Fungal spores in dust and soil	Acquired from fungal spores in dust and soil, especially decaying organic matter such as leaves, grass or wood  No person-to-person transmission
Precautions Needed	Routine Practices

#### **Duration of Precautions**

Not applicable

Incubation Period	Period of Communicability
Unknown	Not applicable

#### **Comments**

Immunocompromised patients are at risk of infection. Refer to: <u>Infection Prevention and Control Considerations for Immunocompromised Patients</u>



Suspected/Known Disease or Microorganism

### Multidrug-resistant (MDR)\* gram-negative bacilli

Acinetobacter spp, MDR

Pseudomonas spp. (CPO), MDR

Stenotrophomonas maltophilia\*\*, MDR

Burkholderia cepacia\*\*, MDR

#### MDR Enterobacteriaceae (Carbapenem-resistant (CPO, CRE, CRO)

E. coli, MDR Providencia spp., MDR Enterobacter spp., MDR
Klebsiella spp., MDR Proteus spp., MDR Morganella spp., MDR
Serratia spp., MDR Citrobacter spp., MDR Salmonella spp., MDR

#### **Clinical Presentation**

Infection or colonization at any body site

Infectious Substances Infected or colonized secretions, excretions	How it is Transmitted  Direct Contact and Indirect Contact
Precautions Needed***	Contact Precautions  For all organisms reported as CPO only
Duration of Precautions  Variable, dependent on organism	
Incubation Period Variable	Period of Communicability  Variable

(Continued on next page)



Suspected/Known Disease or Microorganism

### Multidrug-resistant (MDR)\* gram-negative bacilli

Acinetobacter spp, MDR

Pseudomonas spp. (CPO), MDR

Stenotrophomonas maltophilia\*\*, MDR

Burkholderia cepacia\*\*, MDR

#### MDR Enterobacteriaceae (Carbapenem-resistant (CPO, CRE, CRO)

E. coli, MDR Providencia spp., MDR Enterobacter spp., MDR
Klebsiella spp., MDR Proteus spp., MDR Morganella spp., MDR
Serratia spp., MDR Citrobacter spp., MDR Salmonella spp., MDR

(Continued from previous page)

#### Comments

- \* A multidrug-resistant organism is one that has resistance to 3 or more antibiotic classes
- \*\* See specific organism once identified



<sup>\*\*\*</sup> Precautions required are in addition to <u>Routine Practices</u>. Additional (isolation) precautions are dependent on organism type and antibiotic susceptibility pattern. Please contact Infection Prevention and Control for direction.

Suspected/Known Disease or Microorganism		
Mumps (mumps virus) – Known case, Exposed susceptible		
Clinical Presentation		
Swelling of salivary glands, orchitis		
Known case:	Swelling of salivary glands, orchitis	
Exposed susceptible:	May be asymptomatic	
Infectious Substances	How it is Transmitted	
Saliva, respiratory secretions	Direct contact; large droplets	
Precautions Needed*	<b>Droplet Precautions</b>	
<b>Duration of Precautions</b>	<u>'</u>	
Known case:	Until 5 days after the onset of symptoms	
Exposed susceptible:	Begin 10 days after first contact with confirmed mumps case and continue until 26 days after last exposure	
Incubation Period	Period of Communicability	
14-25 days	2 days before and up to 5 days after onset of symptoms	

#### **Comments**

\*Precautions required are in addition to Routine Practices

#### **Exposed susceptible:**

- **Droplet Precautions** for exposed susceptible patients and healthcare providers should begin 10 days after first contact and continue through 26 days after last exposure.
- Defer non-urgent admission if a non-immune person is incubating the disease
- If contact becomes symptomatic and a confirmed case, follow recommendation for a known mumps case



Suspected/Known Disease or Microorganism

## Mycobacterium – non-tuberculosis (atypical) (e.g., *Mycobacterium avium* complex)

#### **Clinical Presentation**

Lymphadenitis, pneumonia, disseminated disease in immunocompromised patient

w it is	<b>Transmitted</b>
١	w it is

Widely distributed in the environment, particularly in wet soil, marshlands, streams and rivers

Acquired from soil, water, animal reservoirs No person-to-person transmission

Precautions Needed Routine Practices

#### **Duration of Precautions**

Not applicable

### Incubation Period Period of Communicability

Unknown Not applicable

**Comments** 



Suspected/Known Disease or Microorganism		
Mycoplasma pneumoniae		
Clinical Presentation		
Pneumonia		
Infectious Substances	How it is Transmitted	
Respiratory secretions	Direct contact; large droplets	
Precautions Needed*	Droplet Precautions	
Duration of Precautions		
Until symptoms have stopped		
Incubation Period	Period of Communicability	
1-4 weeks	Unknown	
Comments *Precautions required are in addition to Routine Practices		



### Ν

2019-nCoV

Necrotizing enterocolitis

Necrotizing fasciitis

Neisseria gonorrhoeae

Neisseria meningitidis (Meningitis or Invasive Meningococcal Disease)

Nocardiosis (Nocardia spp.)

Norovirus

Novel Coronavirus (COVID-19)

Suspected/Known Disease or Microorga	nism	
Necrotizing enterocolitis		
Clinical Presentation		
Abdominal distention, blood in the stool, ovomiting	diarrhea, feeding intolerance, lethargy, temperature instability,	
Infectious Substances	How it is Transmitted	
Unknown	Probably indirect contact, outbreaks would result from transmission on hands/equipment	
Precautions Needed*	Contact Precautions	
	If outbreak is suspected	
<b>Duration of Precautions</b>		
Duration of outbreak		
Incubation Period	Period of Communicability	
Not applicable	Not applicable	
Comments		

References: PHAC (2012), CDC (2007)

\*Precautions required are in addition to Routine Practices



Suspected/Known Disease or Microorganis	sm
Neisseria gonorrhoeae	
Clinical Presentation	
Ophthalmia, neonatorum, gonorrhea, arthrit	is, pelvic inflammatory disease
Infectious Substances	How it is Transmitted
Exudates from lesions	Mother to child, sexual contact and rarely direct/indirect contact
Precautions Needed	Routine Practices
Duration of Precautions	
Not applicable	
Incubation Period	Period of Communicability
2-7 days	May extend for months in untreated individuals
Comments	I
Comments	
2-7 days	



## *Neisseria meningitidis* (Meningitis or Invasive Meningococcal Disease)

#### **Clinical Presentation**

Meningococcemia, meningitis, pneumonia, Rash (petechial/purpuric) with fever

Infectious Substances	How it is Transmitted
Respiratory secretions	Direct contact; large droplets

Precautions Needed\*

Droplet Precautions

#### **Duration of Precautions**

Until after 24 hours of effective therapy completed.

Incubation Period	Period of Communicability
Usually 2-10 days	Until 24 hours of effective therapy completed

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Physician to Notify Medical Officer of Health of case by fastest means possible
- Consult physician regarding chemoprophylaxis for close contacts



Suspected/Known Disease or Microorganism  Nocardiosis (Nocardia spp.)		
Clinical Presentation  Fever, pulmonary or central nervous system infection, or disseminated disease		
Infectious Substances Acquired from organisms in the soil and dust	How it is Transmitted  By inhalation of the organisms  No person-to-person transmission	
Precautions Needed	Routine Practices	
Duration of Precautions Not applicable		
Incubation Period Unknown	Period of Communicability Not applicable	

#### **Comments**

• Infections in immunocompromised patients may be associated with construction. Refer to: <u>Infection Prevention and Control Considerations for Immunocompromised Patients</u>



Suspected/Known Disease or Microorganism		
Norovirus		
Sapovirus		
Clinical Presentation Nausea, vomiting, diarrhea		
Infectious Substances Feces, emesis/vomit	How it is Transmitted Direct contact and indirect contact (fecal-oral), and large droplets (vomiting)	
Precautions Needed*	Contact Precautions	
	Contact and Droplet Precautions if patient is actively vomiting	
Duration of Precautions		
Until symptoms have stopped for 48 hours and after at least one normal or formed bowel movement		
Incubation Period 12 hours to 4 days	Period of Communicability Duration of viral shedding, usually 48 hours after diarrhea resolves	

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Contact Infection Prevention and Control for discontinuation of additional precautions.
- For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding. Refer to: <u>Infection Prevention and Control Considerations for</u> Immunocompromised Patients
- Common cause of outbreaks. Refer to <u>AHS Guidelines for Outbreak Prevention, Control and Management in Acute Care and Facility Living Sites</u>.

References: PHAC (2012), Becker-Dreps 2020





Orf - Parapoxvirus

Otitis, draining (Streptococcus Group A, Staphylococcus aureus, many other bacteria)



Suspected/Known Disease or Microorga	nism
Orf – Parapoxvirus	
Clinical Presentation Skin lesions	
Infectious Substances	How it is Transmitted
Infected animals	Contact with infected animals (usually sheep and goats)
	No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions	
Not applicable	
Incubation Period	Period of Communicability
3-6 days	Not applicable
Comments	<u> </u>

References: PHAC (2012)



Otitis, draining ( <i>Streptococcus</i> Group A, <i>Staphylococcus aureus,</i> many other bacteria)	
Clinical Presentation  Ear drainage, ear pain	
_ar aramago, car pam	
Infectious Substances	How it is Transmitted

Precautions Needed*	Routine Practices
	INVUINE FIACHCE:

Minor drainage contained by dressing

Direct contact and indirect contact

### **Contact Precautions**

Major drainage not contained by dressing

#### **Duration of Precautions**

Until drainage resolved or contained by dressings.

Suspected/Known Disease or Microorganism

### Incubation Period Period of Communicability Variable Variable

#### **Comments**

Drainage

\*Precautions required are in addition to Routine Practices

See specific organism once identified



### P

Parainfluenza virus

Parvovirus B19 - Fifth disease, erythema infectiosum (rash), aplastic crisis

Pediculosis (Lice) – (Pediculus humanus, Phthirus pubis)

**Pertussis** 

Pharyngitis – (*Streptococcus* Group A, *Corynebacterium diphtheriae*, many viruses)

Plague – bubonic (Yersinia pestis)

Plague – pneumonic (Yersinia pestis)

Pleurodynia (Enterovirus, Coxsackievirus)

Pneumocystis jiroveci pneumonia (PJP) – formerly known as P. carinii (PCP)

Pneumonia – bacterial or viral infection

Poliomyelitis

Proteus spp., MDR – see Multidrug-resistant (MDR) gram-negative bacilli

Providencia spp., MDR – see Multidrug-resistant (MDR) gram-negative bacilli

Pseudomembranous colitis – (Clostridium difficile)

Pseudomonas aeruginosa (Metallo-carbapenemase producing\*\*)

Psittacosis (ornithosis) – (*Chlamydia psittaci*)

Suspected/Known	Disease of	or Microor	ganism
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#### Parainfluenza virus

#### **Clinical Presentation**

Fever, runny nose, cough, sneezing, wheezing, sore throat, croup, bronchitis

Infectious Substances Respiratory secretions	How it is Transmitted Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions  Wear fit tested N95 respirator when performing Aerosol-generating medical procedures (AGMPs).**

#### **Duration of Precautions**

Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms.

In the case of outbreak, patients are to remain on precautions for 5 days from the onset of acute illness OR until they are over the acute illness and have been afebrile X 48hr.

Incubation Period	Period of Communicability
2-6 days	Duration of symptoms

#### **Comments**

\*Precautions required are in addition to Routine Practices

For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding. Refer to <u>Infection Prevention and Control Considerations for Immunocompromised Patients</u>.

Contact Infection Prevention and Control for discontinuation of additional precautions.

- May cohort individuals infected with the same virus.
- Minimize exposure of immunocompromised patients, children with chronic cardiac or lung disease, neonates.
- In the case of outbreak refer to <u>AHS Guidelines for Outbreak Prevention</u>, <u>Control and Management in Acute Care and Facility Living Sites</u>.



### Parvovirus B19 – Fifth disease, erythema infectiosum, aplastic crisis

#### **Clinical Presentation**

Erythema Infectiosum (rash), aplastic crisis, fever, headache, rhinitis

Infectious Substances	How it is Transmitted
Respiratory secretions	Direct contact, indirect contact and large droplets and vertical mother to fetus
Precautions Needed*	Routine Practices Fifth disease
	Droplet Precautions  Aplastic crisis OR chronic infection in immunocompromised patient

#### **Duration of Precautions**

If patient with transient aplastic or erythrocyte crisis maintain precautions for 7 days. For immunesuppressed patients with chronic infection or those with papular purpuric gloves and socks syndrome (PPGS), maintain precautions for duration of hospitalization

Incubation Period	Period of Communicability	
4-21 days	Aplastic Crisis: Up to one week after onset of crisis	
	Fifth Disease: immunocompromised patients are no longer infectious by the time the rash appears	

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Refer to: Infection Prevention and Control Considerations for Immunocompromised Patients
- Aplastic crisis is a dramatic drop in hematocrit levels, diagnosis to be determined by physician.

References: PHAC (2012), CDC (2007), Harvard (2002)



### Pediculosis (Lice) – (Pediculus humanus, Phthirus pubis)

#### **Clinical Presentation**

Infestation may result in severe itching and excoriation of the scalp or body

Infectious Substances Direct and indirect contact with louse	How it is Transmitted Contact with louse directly or indirectly
Precautions Needed	Contact Precautions

#### **Duration of Precautions**

Continue until a minimum of 24 hours after start of effective therapy

Incubation Period	Period of Communicability	
6-10 days	Until effective treatment to kill lice and ova and observed to be free of lice	

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Apply treatment (pediculicide) as directed on label. If live lice found after therapy, repeat treatment.
- Manually remove nits. As no pediculicide is 100% ovicidal, removal of nits decreases the risk of selfreinfestation
- Head lice: wash headgear, combs, pillowcases, towels with hot water or dry clean or seal in plastic bag and store for 10 days
- Body lice: as above and all exposed clothing and bedding



Suspected/Known Disease or Microorganism

## Pharyngitis – (*Streptococcus* Group A, *Corynebacterium diphtheriae*, many viruses)

#### **Clinical Presentation**

Sneezing, coughing, fever, headache, sore throat

#### **Infectious Substances**

Respiratory secretions

#### How it is Transmitted

Direct contact, indirect contact and large droplets

#### **Precautions Needed\***

ADULT	<b>Routine Practices</b>

**Droplet Precautions** - if unable to cover cough

#### **PEDIATRIC**

**Contact and Droplet Precautions** 

#### **Duration of Precautions**

Variable depending on organism

For viral infections, until symptoms resolve or return to baseline

For Group A Streptococcus, until 24 hours of effective antimicrobial therapy completed

#### **Incubation Period**

Variable

#### **Period of Communicability**

**ADULT** - Until acute symptoms resolve

PEDIATRIC - Until acute symptoms resolve

If Group A Streptococcus - until 24 hours of effective antimicrobial therapy completed

#### **Comments**

\*Precautions required are in addition to Routine Practices

See specific organism once identified



Suspected/Known Disease or Microorga	anism	
Plague – bubonic (Yersinia pestis)		
Clinical Presentation Lymphadenitis, fever, chills, headache, e	extreme fatigue	
Infectious Substances	How it is Transmitted	
Not applicable	Bite of an infected flea	
	Contact with contaminated fluid or tissue	
	i.e., touching or skinning infected animals	
Precautions Needed	Routine Practices	
Duration of Precautions		
Not applicable		
Incubation Period	Period of Communicability	
1-7 days	Not applicable	
Comments	<u> </u>	

References: PHAC (2012), CDC (2007)



Physician to Notify Medical Officer of Health of case by fastest means possible

If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations.

Suspected/Known Disease or Microorganism  Plague – pneumonic (Yersinia pestis)		
Infectious Substances	How it is Transmitted	
Respiratory secretions	Direct contact: large droplets	
Precautions Needed*	<b>Droplet Precautions</b>	
Duration of Precautions		
Until 48 hours of effective antimicrobial therapy		
Incubation Period	Period of Communicability	
1-4 days	Until 48 hours of effective antimicrobial therapy	

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Physician to Notify Medical Officer of Health of case by fastest means possible
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations.
- Close contacts may require prophylaxis



Suspected/Known Disease or Microorganism			
Pleurodynia (Enterovirus, Coxsackievirus)			
Clinical Presentation			
Fever, severe chest and abdominal/lower back pain, headache, malaise			
Infectious Substances	How it is Transmitted		
Feces and respiratory secretions	Direct contact, indirect contact and large droplets		
Precautions Needed*			
ADULT	Routine Practices		
PEDIATRIC	Contact Precautions		
Duration of Precautions			
ADULT	Not applicable		
PEDIATRIC Duration of illness			
Incubation Period	Period of Communicability		
3-5 days	ADULT – not applicable		
	PEDIATRIC – duration of illness		
Comments			

See specific organism once identified

\*Precautions required are in addition to Routine Practices



Suspected/Known Disease or Microorganism  Pneumocystis jiroveci pneumonia (PJP) – formerly known as P. carinii (PCP)		
Pneumonia in an immunocompromised patient		
Infectious Substances	How it is Transmitted	
N/A	Unknown	
Precautions Needed	Routine Practices	
Duration of Precautions		
Not applicable		
Incubation Period	Period of Communicability	

Unknown

#### **Comments**

Unknown

- Ensure roommate is not immunocompromised
- Refer to: Infection Prevention and Control Considerations for Immunocompromised Patients



Suspected/Known Disease or Microorganism			
Pneumonia – bacterial or viral infection			
e. Infection may be present in one or both lungs.			
How it is Transmitted			
Direct contact, indirect contact and large droplets			
Precautions Needed*			
Routine Practices			
<b>Contact and Droplet Precautions</b>			
Duration of Precautions			
Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms.			
Period of Communicability			
Duration of symptoms			

#### **Comments**

\*Precautions required are in addition to Routine Practices

- See specific organism once identified
- Contact Infection Prevention and Control for cohorting considerations may cohort individuals infected with the same virus once identified
- Minimize exposure of immunocompromised patients, children with chronic cardiac or lung diseases, nephritic syndrome, neonates. These patients **should not** be cohorted. Refer to: <u>Infection Prevention</u> and Control Considerations for Immunocompromised Patients
- Patients may have prolonged post-viral dry cough for weeks but this may not represent ongoing acute illness
- If TB suspected, see <u>Tuberculosis (TB)</u>



Suspected/Known Disease or Microorga	ınism	
Poliomyelitis		
Clinical Presentation Flaccid paralysis, fever, aseptic mening	yitis	
Infectious Substances	How it is Transmitted	
Feces, respiratory secretions	Direct contact and indirect contact (fecal-oral)	
Precautions Needed*	Contact Precautions  Patient must be isolated in a private room with a private bathroom.	
Duration of Precautions Until 6 weeks from start of illness or until	feces culture negative	
Incubation Period	Period of Communicability	
3-35 days	Duration of shedding is up to 6 weeks	
	L	

#### **Comments**

\*Precautions required are in addition to Routine Practices

- Physician to Notify Medical Officer of Health of suspected or confirmed case by fastest means possible
- Only healthcare workers who are fully vaccinated\*\* against poliovirus and are not immunocompromised should provide care for a poliovirus patient
- Close contacts who are not immune should receive immunoprophylaxis

References: PHAC (2012), CDC (2007), PHAC (Polio) 2023



<sup>\*\*</sup>Healthcare workers should contact WHS for immunity assessment

### Pseudomonas aeruginosa (Metallo-carbapenemase producing\*\*)

#### **Clinical Presentation**

Asymptomatic or various infections of skin, soft tissue, pneumonia, bacteremia, urinary tract, etc.

Infectious Substances	How it is Transmitted
Colonized/infected body sites	Direct contact and indirect contact
Precautions Needed*	Douting Breatings

**Routine Practices** 

#### **Duration of Precautions**

As directed by Infection Prevention and Control

Incubation Period	Period of Communicability
Not applicable	Variable

#### Comments

\*Precautions required are in addition to Routine Practices

• If organism is reported as <u>Carbapenemase-producing organism</u>

References: CDC (2011)



Suspected/Known Disease or Microorganism  Psittacosis (ornithosis) – (Chlamydia psittaci)		
Pneumonia, fever		
Infectious Substances	How it is Transmitted	
Desiccated droppings, secretions and dust of	Acquired from contact with infected birds	
infected birds	No person-to-person transmission	
Precautions Needed	Routine Practices	
Duration of Precautions		
Not applicable		
Incubation Period	Period of Communicability	
7-14 days	Not applicable	
Comments		

References: PHAC (2012)



Q

Q fever (Coxiella burnetii)



Suspected/Known Disease or Microorganism	
Q fever (Coxiella burnetii)	
Clinical Presentation	
Pneumonia, fever	
Infectious Substances	How it is Transmitted
Infected animals, raw milk	Acquired from contact with infected animals or ingestion of raw milk
	No person-to-person transmission
Precautions Needed	Routine Practices
<b>Duration of Precautions</b>	
Not applicable	
Incubation Period	Period of Communicability
14-39 days	Not applicable
Comments	I



### R

Rabies

Rash, petechial or purpuric – (potential pathogen *Neisseria meningitidis*)

Rash, vesicular – (potential pathogen Varicella virus)

Rat-bite fever -

Actinobacillus – (formerly Streptobacillus moniliformis)

Spirillum minus

Relapsing fever (Borrelia spp.)

Rhinovirus

Rickettsialpox (Rickettsia akari)

Ringworm (tinea) – (*Trichophyton* spp., *Microsporum* spp., *Epidermophyton* spp.)

Rocky mountain spotted fever (*Rickettsia rickettsii*)

Roseola infantum – Human Herpes virus 6 (HHV6)

Rotavirus

RSV - Respiratory Syncytial Virus

Rubella (German measles) -

Exposed susceptible contact

Acquired

Congenital

Rubeola (Measles) – Exposed susceptible contact and confirmed diagnosis



### Suspected/Known Disease or Microorganism

### **Rabies**

#### **Clinical Presentation**

Acute encephalomyelitis. First symptoms similar to those of the flu: headache, fever, malaise.

There may be a discomfort, prickling or itching sensation at the site of the bite.

As the disease progresses more symptoms of delirium, abnormal behavior, hallucinations and insomnia.

How it is Transmitted
Acquired from saliva or bite of infected animals
Rarely documented via other routes such as contamination of mucous membranes (eyes, nose and mouth) aerosol transmission and corneal and organ transplantations
Person-to-person transmission is theoretically possible but rare and not well documented
Routine Practices

### **Duration of Precautions**

Not applicable

#### **Incubation Period**

Highly variable, usually 3-8 weeks, rarely as short as 9 days or as long as 7 years

### **Period of Communicability**

Not applicable

#### Comments

- Physician to Notify Medical Officer of Health of case by fastest means possible
- If the patient is deceased, refer to the <u>Alberta Bodies of Deceased Persons Regulations</u>.
- Post-exposure prophylaxis is recommended for percutaneous or mucosal contamination with saliva of rabid animal

References: PHAC (2012), CDC (2007)

**Suspected/Known Disease or Microorganism** 



# Rash, petechial or purpuric – (potential pathogen *Neisseria meningitidis*)

### **Clinical Presentation**

Rash (petechial/purpuric) with fever

Infectious Substances	How it is Transmitted
Respiratory secretions	Direct contact; large droplets
Precautions Needed*	Droplet Precautions if Neisseria. meningitidis suspected

### **Duration of Precautions**

If Neisseria meningitidis confirmed, until 24 hours of effective antimicrobial therapy completed.

If Neisseria meningitidis and other infectious cause ruled out, discontinue precautions.

### **Incubation Period**

If Neisseria meningitidis: Usually 2-10 days

### **Period of Communicability**

If *Neisseria meningitidis*: Until 24 hours of effective antimicrobial therapy completed

#### **Comments**

\*Precautions required are in addition to Routine Practices



Suspected/Known	Disease or	Microorganism
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# Rash, vesicular – (potential pathogen varicella virus)

### **Clinical Presentation**

Fever, rash

Infectious Substances Respiratory secretions, skin lesion drainage	How it is Transmitted Airborne, direct contact and indirect contact
Precautions Needed*	Airborne and Contact Precautions

### **Duration of Precautions**

If Varicella infection is confirmed: until all lesions are dry

Incubation Period	Period of Communicability
See <u>Varicella</u>	See <u>Varicella</u>

### **Comments**

\*Precautions required are in addition to Routine Practices

• See specific organism once identified



### Rat-bite fever -

# Actinobacillus – (formerly Streptobacillus moniliformis)

### Spirillum minus

### **Clinical Presentation**

Fever, arthralgia. Additional symptoms can vary for the two types of rat-bite fever Refer to Centers for Disease Control and Prevention (CDC) for more detail.

Infectious Substances	How it is Transmitted
Saliva of infected rodents; contaminated milk	Bite from infected animals

Ingestion of contaminated milk

No person-to-person transmission

# Precautions Needed Routine Practices

#### **Duration of Precautions**

Not applicable

Incubation Period	Period of Communicability
3-10 days for A. moniliformis	Not applicable
7-21 days for <i>S. minus</i>	

#### **Comments**

- A. moniliformis: acquired from rats and other animals, contaminated milk
- S minus: acquired from rats, mice only



Suspected/Known Disease or Microorganism  Relapsing fever (Borrelia spp.)	
Clinical Presentation  Recurrent fever, transitory petechial rashes	s
Infectious Substances Infected lice or tick saliva	How it is Transmitted  Acquired by bite of lice or ticks  No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions  Not applicable	
Incubation Period 2-18 days	Period of Communicability Not applicable
Comments	



Suspected/Known Disease or Microorganism  Rhinovirus	
Clinical Presentation Sore throat, runny nose, coughing, sneezing	
Infectious Substances	How it is Transmitted
Respiratory secretions	Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions  For adult patients only: Wear fit tested N95 respirator when performing Aerosol-generating medical procedures (AGMPs).**
<b>Duration of Precautions</b>	,
Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms.	
Incubation Period	Period of Communicability
2-3 days	Duration of symptoms

### **Comments**

\*Precautions required are in addition to Routine Practices

- May cohort individuals infected with the same virus. Patient should not share room with high-risk roommates (e.g., immunosuppressed)
  - Minimize exposure to immunocompromised patients, children with chronic cardiac or lung disease, nephritic syndrome, neonates. These patients should not be cohorted.
- For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding. Refer to: <u>Infection Prevention and Control Considerations for</u> <u>Immunocompromised Patients</u>



Suspected/Known Disease or Microorgan	nism
Rickettsialpox (Rickettsia akari)	
Clinical Presentation	
Fever, rash	
Infectious Substances	How it is Transmitted
Infected mouse-mite saliva	Acquired by bite of mouse-mite
	No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions	
Not applicable	
Incubation Period	Period of Communicability
9-14 days	Not applicable
Comments	



Suspected/Known Disease or Microorganism

# Ringworm (tinea) – (*Trichophyton* spp., *Microsporum* spp., *Epidermophyton* spp.)

### **Clinical Presentation**

Erythema (on skin, beard, scalp, groin, perineal region), pityriasis versicolor, scaling, lesions, athlete's foot

Infectious Substances	How it is Transmitted
Contaminated skin or hair	Direct contact (skin to skin)
	Indirect contact (shared combs, brushes, clothing, hats, sheets, shower stalls)
Precautions Needed*	Routine Practices
	Contact Precautions Outbreaks
	•

### **Duration of Precautions**

Not applicable

Incubation Period	Period of Communicability
4-14 days	While lesion(s) are present

#### **Comments**

- \*Precautions required are in addition to Routine Practices
- While under treatment for *Trichophyton*, patient should be excluded from swimming pools and activities likely to lead to exposure of others
- Refer to AHS Guidelines for Outbreak Prevention, Control and Management in Acute Care and Facility Living Sites.



Suspected/Known Disease or Microorg	anism	
Rocky mountain spotted fever ( <i>Rickettsia rickettsii</i> )		
Clinical Presentation  Fever, petechial rash, encephalitis		
Infectious Substances Tick saliva	How it is Transmitted  Tick bite  Not transmitted person-to-person except rarely by transfusion	
Precautions Needed	Routine Practices	
Duration of Precautions  Not applicable		
Incubation Period 2-14 days	Period of Communicability  Not applicable	

### **Comments**

• Infection in humans is incidental and is acquired most frequently during blood feeding by the infected tick, rarely through transfusion



Suspected/Known Disease or Microorga	anism	
Roseola infantum – Human Herpes virus 6 (HHV6)		
Clinical Presentation		
Rash, fever		
Infectious Substances	How it is Transmitted	
Saliva (presumed)	Direct contact (close personal)	
<b>Precautions Needed</b>	Routine Practices	
<b>Duration of Precautions</b>		
Not applicable		
Incubation Period	Period of Communicability	
9-10 days	Unknown	
Comments		



### **Rotavirus**

### **Clinical Presentation**

Acute fever, vomiting followed by watery diarrhea in 24 to 48 hours

Diarrhea may persist for up to 8 days

Infectious Substances Feces, contaminated objects (e.g., toys)	How it is Transmitted  Direct contact and indirect contact, and if vomiting, large droplets
Precautions Needed*	Contact Precautions
	Contact and Droplet Precautions if vomiting

#### **Duration of Precautions**

Until symptoms have stopped for 48 hours and after at least one normal or formed bowel movement OR patient is continent

Incubation Period	Period of Communicability
1-3 days	Until symptoms resolve

#### Comments

\*Precautions required are in addition to Routine Practices

Prolonged fecal shedding may occur in immunocompromised patients after diarrhea has ceased;
 Contact Precautions should be maintained until laboratory results are negative. Refer to: <u>Infection Prevention and Control Considerations for Immunocompromised Patients</u>



## **RSV – Respiratory Syncytial Virus**

#### **Clinical Presentation**

Runny nose, coughing, sneezing, fever, wheezing

Infectious Substances Respiratory secretions	How it is Transmitted Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions
	For adult patients only: Wear fit tested N95 respirator when performing Aerosol-generating medical procedures (AGMPs).**

#### **Duration of Precautions**

Resolution of acute respiratory infection symptoms or return to baseline. Refer to clinical presentation for examples of symptoms.

Incubation Period	Period of Communicability
2-8 days	Duration of symptoms

### **Comments**

\*Precautions required are in addition to Routine Practices

- May cohort with others of same confirmed virus.
- Minimize exposure of immunocompromised patients, children with chronic cardiac or lung disease, neonates.
- For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding.
- Contact Infection Prevention and Control for discontinuation of additional precautions. Refer to: <u>Infection Prevention and Control Considerations for Immunocompromised Patients</u>
- Refer to <u>AHS Guidelines for Outbreak Prevention</u>, <u>Control and Management in Acute Care and Facility</u>
   Living Sites.



Suspected/Known Disease or Microorganism	
Rubella (German measles) –	Exposed susceptible contact
	Acquired
	Congenital
Clinical Presentation	
Exposed susceptible contact:	Asymptomatic
Acquired:	Fever and maculopapular rash
Congenital:	Congenital rubella syndrome in the newborn (mild fever, rash with diffuse red spots and skin eruptions of irregular round shapes)
Infectious Substances	
Congenital:	Urine and nasopharyngeal secretions
All other cases:	Respiratory secretions
How it is Transmitted	
Congenital:	Direct contact, indirect contact and large droplets
All other cases:	Direct contact and large droplets
Precautions Needed*	
Congenital:	Contact and Droplet Precautions
All other cases:	Droplet Precautions
Exposed susceptible contact:	Droplet Precautions should be maintained for exposed susceptible patients for 7 days after first contact through to 21 days after last contact.
Acquired:	Until 7 days of onset of rash

(Continued on next page)



Suspected/Known Disease or Microorganism Rubella (German measles) –  (Continued from previous page)	Exposed susceptible contact Acquired Congenital
Precautions Needed* (continued) Congenital:	Precautions will be required during any admission during the first year of life unless nasopharyngeal and urine cultures are done at > 3 months of age and are negative
<b>Duration of Precautions</b>	
Exposed susceptible contact:	Droplet Precautions should be maintained for exposed susceptible patients for 7 days after first contact through to 21 days after last contact.
Acquired:	Until 7 days after onset of rash
Congenital:	Precautions will be required during any admission during the first year of life unless nasopharyngeal and urine cultures are done at > 3 months of age and are negative
Incubation Period All cases:	14-21 days
Period of Communicability	
Congenital:	Prolonged shedding in respiratory tract and urine can be up to one year
All other cases:	One week before to 7 days after onset of rash, can be contagious up to 14 days after rash appears

(Continued on next page)



Suspected/Known Disease or Microorganism

Rubella (German measles) –

(Continued from previous page)

**Exposed susceptible contact Acquired** 

Congenital

#### **Comments**

\*Precautions required are in addition to Routine Practices

### Congenital:

- Only immune persons should enter the room
- Proof of immunity includes
  - written documentation of receipt of > 1 dose of a rubella-containing vaccine administered on or after the first birthday, or
  - o laboratory evidence of immunity (IgG); or laboratory confirmed infection.
- Non-immune persons should not enter except in urgent or compassionate circumstances

If immunity is unknown, assume person is non-immune

#### All other cases:

- Defer non-urgent admission if rubella is present. May admit after rash has resolved
- If possible, only immune healthcare providers, caretakers and visitors should enter the room. If it is essential for a non-immune person to enter the room, facial protection should be worn.
- Administer vaccine to exposed susceptible non-pregnant persons within 3 days of exposure

**References:** Canadian Immunization Guide, PHAC (2012), WHO (2012)



Suspected/Known Disease or	Measles:	Measles:
Microorganism	Exposed susceptible contact or suspect case	Known case
Rubeola (Measles)		
Clinical Presentation	Asymptomatic, may have prodromal fever and cough early in incubation period	Prodromal fever, cough, coryza, conjunctivitis (3Cs, koplik spots inside mouth, especially the cheeks). A maculopapular skin rash appears 3-7 days after symptom onset
Infectious Substances	Exhaled airborne particles	Exhaled airborne particles
How it is Transmitted	Airborne, if not measles may be droplet, indirect and direct contact**	Airborne
Precautions Needed*	Airborne Precautions and Contact and Droplet Precautions*  *Contact and Droplet Precautions required for all suspect measles cases, but only required for exposed susceptible cases if symptoms develop prior to Day 5 as symptoms could be due to another communicable disease.	Airborne Precautions and Infection Prevention Control Risk Assessment (IPC RA)
<b>Duration of Precautions</b>	5 days after first exposure until 21 days after last exposure	4 days after start of rash in immunocompetent patients or until all symptoms are gone in <u>immunocompromised patients</u> .  Date of rash onset is Day 0.
Incubation Period	7-18 days *Individuals who receive immune globulin (Ig) for post- exposure prophylaxis (PEP) may have a prolonged incubation period	7-18 days
Period of Communicability	Exposed susceptible contact - potentially communicable during last 2 days of incubation period	1 day before the start of the prodrome period until 4 days after onset of rash
*Precautions required are in addition to Routine Practices  *References: PHAC (2012), Alberta Health (2022)	<ul> <li>All HCWs, regardless of measles immunity status, should wear a fit-tested and seal-checked N95 respirator when caring for a suspected or confirmed measles case.</li> <li>Where staffing permits, it is recommended that only those HCWs who are known to meet measles immunity criteria care for suspected or confirmed measles cases. However, HCWs who do not meet measles immunity criteria do not need to be restricted from caring for suspected or confirmed measles cases; these HCWs can still care for measles cases, so long as they are wearing appropriate PPE (N95 respirator).</li> <li>Precautions should be taken with neonates born to mother with measles infection at delivery</li> <li>Defer non-urgent admissions if there is an exposed susceptible contact within their incubation period.</li> <li>Once there is laboratory confirmation, the contact becomes a known case. Follow recommendations for a known case and maintain patient on Airborne Precautions</li> </ul>	<ul> <li>All HCWs, regardless of measles immunity status, should wear a fit-tested and seal-checked N95 respirator when caring for a suspected or confirmed measles case.</li> <li>Where staffing permits, it is recommended that only those HCWs who are known to meet measles immunity criteria care for suspected or confirmed measles cases. However, HCWs who do not meet measles immunity criteria do not need to be restricted from caring for suspected or confirmed measles cases; these HCWs can still care for measles cases, so long as they are wearing appropriate PPE (N95 respirator).</li> <li>Precautions should be taken with neonates born to mother with measles infection at delivery</li> <li>Air Clearance Time (also known as Discharge Settle Time)</li> <li>Non-negative pressure rooms:</li> <li>Do not admit a new patient into this room for at least 2 hours. If entering room before 2 hours and wear an N95 respirator Negative pressure rooms:</li> <li>Do not admit a new patient into this room for at least 45 minutes. If entering room before 45 minutes, wear an N95 respirator</li> <li>Alternatively, if specific air exchange rates for the room are known, refer to Table 1: Air Clearance Rates to determine air clearance times</li> <li>Susceptible high-risk contacts may be given post-exposure prophylaxis (PEP)</li> <li>Immunocompromised patient additional precautions need to be maintained for a longer duration due to prolonged viral shedding</li> </ul>

### S

Salmonella (Salmonella spp.)

Sapovirus

SARS CoV – (Severe acute respiratory syndrome, Coronavirus)

Scabies (Sarcoptes scabiei), Rash – compatible with scabies (Ectoparasite)

Scarlet fever

Schistosomiasis (Schistosoma spp.)

Septic arthritis – (*Haemophilus influenzae* type B [HIB] [possible in non-immune child <5 years of age], *Streptococcus* Group A, *Staphylococcus aureus*, many other bacteria)

Serratia spp.

Shigella (Shigella spp.)

**Shingles** 

Smallpox (variola major virus, variola minor virus)

Sporotrichosis (Sporothrix schenckii)

Staphylococcus aureus - MRSA

Staphylococcus aureus - not MRSA - And other Streptococci, excluding Group A

Pneumonia

Skin infection

Staphylococcal scalded skin syndrome (Ritter's disease)

Stenotrophomonas maltophilia

Streptococcus Group A (GAS)

Streptococcus, Group B (Streptococcus agalactiae)

Streptococcus pneumoniae

Strongyloidiasis (Strongyloides stercoralis)

Syphilis (*Treponema pallidum*)



Suspected/Known	Disease or	Microorganism
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## Salmonella (Salmonella spp.)

### **Clinical Presentation**

Diarrhea, enteric fever, typhoid fever, food poisoning

Infectious Substances Feces	How it is Transmitted Direct contact, indirect contact and foodborne
Precautions Needed*	Contact Precautions If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment

### **Duration of Precautions**

Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement

OR until patient is continent and has good hygiene

Incubation Period	Period of Communicability
6-72 hours for diarrhea; 3-60 days for enteric fever	Until symptoms resolve

### **Comments**

\*Precautions required are in addition to Routine Practices

If organism is reported as Carbapenemase-producing organism



Suspected/Known Disease or Microorganism

### SARS CoV – (Severe acute respiratory syndrome, Coronavirus)

#### **Clinical Presentation**

Fever, cough, runny nose, sore throat, pneumonia (shortness of breath, discomfort during breathing)

Infectious Substances Respiratory secretions and exhaled droplets and airborne particles, stool	How it is Transmitted Direct contact, indirect contact and large droplets
Precautions Needed*	Contact and Droplet Precautions  Perform an Infection Prevention and Control Risk  Assessment (IPC RA) and wear fit tested N95 respirator when performing Aerosol- generating medical procedures (AGMPs).**  For more information refer to Interim Guidance-Novel Coronavirus

#### **Duration of Precautions**

Duration of precautions will be determined on a case-by-case basis and in conjunction with Infection Prevention and Control, and the Medical Officer of Health.

Incubation Period	Period of Communicability
3-10 days	Unknown / variable

#### **Comments**

\*Precautions required are in addition to Routine Practices.

- Physician to Notify Medical Officer of Health of case by fastest means possible
- Contact Infection Prevention and Control for discontinuation of precautions
   Minimize exposure to immunocompromised patients, children with chronic cardiac or lung disease,
   nephritic syndrome, neonates. These patients should not be cohorted. Refer to: <u>Infection Prevention</u>
   and Control Considerations for Immunocompromised Patients
- Immunocompromised patient additional precautions need to be maintained for a longer duration due to prolonged viral shedding.



<sup>\*\*</sup> For complete list of AGMPs

Suspected/Known Disease or Microorganism

# Scabies (Sarcoptes scabiei), Rash – compatible with scabies (ectoparasite)

### **Clinical Presentation**

Scales or blisters with intense itching especially at night, pimple like rash. Track like burrows in the skin. In early stages can look like acne, mosquito bites. Crusted or severe scabies may present with vesicles and thick crusts over the skin and lack the typical intense itching to clinical presentation.

Infectious Substances Mite	How it is Transmitted  Direct contact and indirect contact
Precautions Needed*	Contact Precautions

### **Duration of Precautions**

Until 24 hours after initiation of effective treatment

Incubation Period	Period of Communicability
Initial infestation: 2-6 weeks	Until mites and eggs are destroyed by treatment,
Re-infection: 1-4 days after re-exposure	usually after 1 or 2 courses of treatment, a week apart

#### Comments

\*Precautions required are in addition to Routine Practices

- Apply scabicide as directed on label
- · Wash clothes and bedding in hot water, dry clean or seal in a plastic bag and store for 1 week
- · Household and sexual contacts should be treated



Suspected/Known Disease or Microorganism		
Schistosomiasis (Schistosoma spp.)		
Clinical Presentation		
Diarrhea, fever, itchy rash, hepatosplenomegaly, hematuria		
Infectious Substances How it is Transmitted		
Contaminated water	Acquired by contact with larvae in contaminated water	
	No person-to-person transmission	
Precautions Needed	Routine Practices	
<b>Duration of Precautions</b>		
Not applicable		
Incubation Period	Period of Communicability	
Unknown	Not applicable	
Comments		



Suspected/Known Disease or Microorganism

# Septic arthritis – (*Haemophilus influenzae* type B [HIB] [possible in non-immune child <5 years of age], *Streptococcus* Group A, *Staphylococcus aureus*, many other bacteria)

### **Clinical Presentation**

Inability to move the limb with the infected joint (pseudoparalysis), intense joint pain, joint swelling, joint redness, low fever

Infectious Substances	How it is Transmitted
Respiratory secretions if HIB	Direct contact if HIB and large droplet if HIB
Precautions Needed*	

ADULT	Routine Practices
PEDIATRIC	<b>Droplet Precautions</b> - if HIB

#### **Duration of Precautions**

If HIB until 24 hours of effective antimicrobial therapy completed

Incubation Period	Period of Communicability
Not applicable	Not applicable

#### Comments

\*Precautions required are in addition to Routine Practices



**Period of Communicability** 

Until symptoms resolve

Suspected/Known Disease or Microorganism	
Shigella (Shigella spp.)	
Clinical Presentation Diarrhea	
Infectious Substances	How it is Transmitted
Feces	Direct contact and indirect contact (fecal-oral)
Precautions Needed*	Contact Precautions If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment
Duration of Precautions Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement	
OR until patient is continent and has good hygiene	

### **Comments**

1-3 days

**Incubation Period** 

\*Precautions required are in addition to Routine Practices

• Treatment with effective antimicrobial therapy shortens period of infectivity



Suspected/Known	Disease or	Microorganism
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# Smallpox (variola major virus, variola minor virus)

#### **Clinical Presentation**

Fever, vesicular/pustular lesions in appropriate epidemiologic context

Infectious Substances Skin lesion exudate, oropharyngeal secretions	How it is Transmitted  Direct contact, indirect contact and airborne
Precautions Needed*	Airborne Precautions
	Contact and Droplet Precautions

### **Duration of Precautions**

3-4 weeks after onset of rash when all crusts have separated

Incubation Period	Period of Communicability
7-10 days	3-4 weeks after onset of rash when all crusts have separated

### **Comments**

\*Precautions required are in addition to Routine Practices

- Physician to notify Medical Officer of Health of case by fastest means possible
- May be Bioterrorism related
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations



Suspected/Known Disease or Microorgan	nism
Sporotrichosis (Sporothrix schenckii)	
Clinical Presentation Skin lesions	
Infectious Substances	How it is Transmitted
Contaminated soil, vegetation	Acquired from spores in soil or vegetation  No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	
Incubation Period	Period of Communicability
Variable	Not applicable
Comments	



Suspected/Known Disease or Microorganism	
Staphylococcus aureus – MRSA	
Clinical Presentation	
Asymptomatic or various infections of skin, so or colonization of any body site	oft tissue, pneumonia, bacteremia, urinary tract, etc. Infection
Infectious Substances	How it is Transmitted
Surface skin, secretions	Direct contact, indirect contact and large droplets (if
Respiratory secretions if pneumonia	pneumonia)
Precautions Needed*	Contact Precautions
	Contact and Droplet Precautions
	if patient has active MRSA pneumonia
<b>Duration of Precautions</b>	
As directed by Infection Prevention and Contr	·ol
Incubation Period	Period of Communicability
Variable	Variable
Comments	

References: PHAC (2012)

\*Precautions required are in addition to Routine Practices



**Suspected/Known Disease or Microorganism** 

## Staphylococcus aureus – not MRSA

And other Streptococci, excluding Group A

Pneumonia
Skin infection
Staphylococcal scalded skin syndrome (Ritter's disease)

Clinical Presentation	
Pneumonia:	Pneumonia
Skin infection:	Wound or burn infections, skin infection, furuncles, impetigo, scalded skin syndrome
Scalded skin syndrome (Ritter's disease):	Painful, rash with thick white/brown flakes, fluid filled blisters
Infectious Substances	
Pneumonia:	Possibly respiratory secretions
All other cases:	Skin exudates and drainage
How it is Transmitted	
Pneumonia:	Not applicable
All other cases:	Direct contact and indirect contact

(Continued on next page)



Suspected/Known Disease or Microorganism

## Staphylococcus aureus – not MRSA

And other Streptococci, excluding Group A

Pneumonia
Skin infection
Staphylococcal scalded skin syndrome (Ritter's disease)

(Continued from previous page)

Precautions Needed*	
Pneumonia: ADULT	Routine Practices
PEDIATRIC	Droplet Precautions
All other cases:	Routine Practices - Minor drainage contained by dressing
	Contact Precautions - Major drainage not contained by dressing
<b>Duration of Precautions</b>	
Pneumonia: ADULT PEDIATRIC	Not applicable 24 hrs. effective antimicrobial therapy
All other cases:	Until drainage has stopped or is able to be contained by dressings

(Continued on next page)



Suspected/Known Disease or Microorganism

Staphylococcus aureus - not MRSA

And other Streptococci, excluding Group A

Pneumonia
Skin infection
Staphylococcal scalded skin syndrome (Ritter's disease)

(Continued from previous page)

**Incubation Period** 

Variable

**Period of Communicability** 

**Pneumonia**: Variable

All other cases: While organism is present in

drainage

### **Comments**

\*Precautions required are in addition to Routine Practices

Suspected/Known Disease or Microorganism  Stenotrophomonas maltophilia	
Clinical Presentation Infection or colonization of respiratory secr	
Infectious Substances Respiratory secretions	How it is Transmitted  Direct contact and indirect contact
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	
Incubation Period Unknown	Period of Communicability While organism is in respiratory secretions
Comments  • When clusters or outbreaks occur IPC	may initiate Contact Precautions



agalactiae)
is Transmitted
infant shortly before or during delivery
e Practices
of Communicability
9



Suspected/Known Disease or Microorganis	sm
Streptococcus pneumoniae	
Clinical Presentation	
Meningitis, bacteremia, epiglottitis, pneumo	nia
Infectious Substances	How it is Transmitted
Normal flora	Not applicable
Precautions Needed	Routine Practices
<b>Duration of Precautions</b>	
Not applicable	
Incubation Period	Period of Communicability
Variable	Not applicable
Comments	1



Suspected/Known Disease or Microorganism  Strongyloidiasis (Strongyloides stercoralis)	
Clinical Presentation Usually asymptomatic	
Infectious Substances Larvae in feces	How it is Transmitted  Penetration of skin by larvae  Rarely transmitted person-to-person
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	
Incubation Period Unknown	Period of Communicability Not applicable

### **Comments**

- Although usual route of transmission is through skin contact of contaminated soil, Fecal-oral transmission can occur.
- May cause disseminated disease in immunocompromised patient. Refer to: <u>Infection Prevention and Control Considerations for Immunocompromised Patients</u>



Suspected/Known Disease or Microorganism	
Syphilis ( <i>Treponema pallidum</i> )	
Clinical Presentation	
Genital, skin or mucosal lesions, disseminate	ed disease, neurological or cardiac disease, latent infection
Infectious Substances	How it is Transmitted
Genital secretions, lesion exudates	Mom to newborn or fetus, sexual contact and direct contact with infectious exudates or lesions
Precautions Needed*	Routine Practices
	Contact Precautions infants with congenital syphilis until 24 hours of effective antimicrobial therapy completed
<b>Duration of Precautions</b>	
Not applicable	
Incubation Period	Period of Communicability
10-90 days	Communicability exists when moist mucocutaneous lesions of primary and secondary syphilis are present (generally after one year of infection)
Comments	
*Precautions required are in addition to Routine Practices	

References: PHAC (2012)



### Т

Tapeworm (Taenia saginata, Taenia solium, Diphyllobothrium latum, Hymenolepsis nana)

Tetanus (Clostridium tetani)

Toxic shock syndrome

Toxocariasis (Toxocara canis, Toxocara cati)

Toxoplasmosis (Toxoplasma gondii)

Trachoma (Chlamydia trachomatis)

Trench fever (Bartonella quintana)

Treponema pallidum

Trichinosis (*Trichinella spiralis*)

Trichomoniasis (*Trichomonas vaginalis*)

Trichuriasis – whipworm (*Trichuris trichiura*)

Tuberculosis (TB) -

Extrapulmonary (Mycobacterium tuberculosis); (also *M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG*)

Pulmonary disease (Mycobacterium tuberculosis); (also *M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG*)

Non-pulmonary

Tularemia (Francisella tularenis)

Typhoid or Paratyphoid fever (Salmonella typhi, Salmonella paratyphi)

Typhus fever (Rickettsia typhi, Rickettsia prowazekii)



Suspected/Known Disease or Microorganism

## Tapeworm (Taenia saginata, Taenia solium, Diphyllobothrium latum, Hymenolepsis nana)

#### **Clinical Presentation**

Usually asymptomatic

Infectious Substances

Ova in feces

How it is Transmitted

Direct contact and foodborne

**Precautions Needed** 

**Routine Practices** 

#### **Duration of Precautions**

Not applicable

### **Incubation Period**

Variable when foodborne, 2-4 weeks if contact with feces

### **Period of Communicability**

*T. saginata* is not directly transmitted person-toperson, however *T. solium* can be. Eggs may be viable in the environment for months.

#### **Comments**

 Consumption of larvae in raw or undercooked beef, pork or raw fish; larvae develop into adult tapeworms in gastrointestinal tract



### Tetanus (Clostridium tetani)

#### **Clinical Presentation**

Headache, jaw cramping, sudden involuntary muscle tightening, painful muscle stiffness all over body, trouble swallowing, seizures, fever, sweating, high blood pressure and fast heart rate

Infectious Substances	How it is Transmitted
Soil or fomites contaminated with animal and human feces	Tetanus spores are usually introduced through a puncture wound contaminated with soil or feces  No person-to-person transmission
Precautions Needed	Routine Practices
<b>Duration of Precautions</b>	
Not applicable	
Incubation Period	Period of Communicability

Not applicable

## Comments

1 day to several months



Suspected/Known Disease or Microorganism		
Toxocariasis (Toxocara canis, Toxocara cati)		
Clinical Presentation		
Fever, wheeze, rash, eosinophilia		
Infectious Substances	How it is Transmitted	
Acquired from contact with dogs, cats	Ova in dog or cat feces	
Precautions Needed	Routine Practices	
<b>Duration of Precautions</b>		
Not applicable		
Incubation Period	Period of Communicability	
Unknown	Not applicable	
Comments		



### Toxoplasmosis (Toxoplasma gondii)

#### **Clinical Presentation**

Asymptomatic or fever, lymphadenopathy, retinitis, encephalitis in immunocompromised patient, congenital infection

Infectious Substances Cat feces, contaminated soil	How it is Transmitted Acquired by contact with infected cat feces or soil contaminated by cats, consumption of raw meat, contaminated raw vegetables or contaminated water No person-to-person transmission except mother to fetus.
<b>Precautions Needed</b>	Routine Practices
Duration of Precautions Not applicable	
Incubation Period	Period of Communicability

#### **Comments**

5-23 days

- For immunocompromised patient, precautions need to be maintained for a longer duration due to prolonged viral shedding: Refer to: <u>Infection Prevention and Control Considerations for</u> <u>Immunocompromised Patients</u>
- Oocysts shed by cats become infective 1-5 days later and can remain viable in the soil for a year.



Suspected/Known Disease or Microorganism  Trachoma (Chlamydia trachomatis)	
Clinical Presentation Conjunctivitis	
Infectious Substances	How it is Transmitted
Ocular drainage	Direct contact and indirect contact
Precautions Needed	Routine Practices
Duration of Precautions  Not applicable	
Incubation Period	Period of Communicability
5-12 days	As long as organism is present in secretions
Comments	,

References: PHAC (2012)



## Trench fever (Bartonella quintana)

#### **Clinical Presentation**

Headache, malaise, pain and tender shins, splenomegaly, rash

Infectious Substances	How it is Transmitted
Faces of human hady lies	No porson to porson transmissi

Feces of human body lice No person-to-person transmission

Precautions Needed Routine Practices

### **Duration of Precautions**

Not applicable

Incubation Period Period of Communicability

7-30 days Not applicable

**Comments** 



Suspected/Known Disease or Microorganism	
Trichinosis ( <i>Trichinella spiralis</i> )	
Clinical Presentation	
Fever, rash, diarrhea	
Infectious Substances	How it is Transmitted
Acquired from consumption of infected meat	No person-to-person transmission
Precautions Needed	Routine Practices
<b>Duration of Precautions</b>	
Not applicable	
Incubation Period	Period of Communicability
5-45 days	Not applicable
Comments	



Suspected/Known Disease or Microorganism	
Trichomoniasis ( <i>Trichomonas vaginalis</i> )	
Clinical Presentation Vaginitis	
Infectious Substances	How it is Transmitted
Vaginal secretions and urethral discharges of infected people	Sexual contact
Precautions Needed	Routine Practices
<b>Duration of Precautions</b>	
Not applicable	
Incubation Period	Period of Communicability
4-28 days	Duration of infection
Comments	



Suspected/Known Disease or Microorganism  Trichuriasis – whipworm ( <i>Trichuris trichiura</i> )	
Clinical Presentation Abdominal pain, diarrhea	
Infectious Substances Acquired from ova in soil	How it is Transmitted  No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	
Incubation Period Unknown	Period of Communicability Not applicable

**Comments** 

Acquired through ingestion of contaminated soil. Ova must hatch in soil to be infective.



Suspected/Known Disease or Microorganism

### Tuberculosis (TB) -

Extrapulmonary (Mycobacterium tuberculosis); (also *M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG*)

Pulmonary disease (Mycobacterium tuberculosis); (also *M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG*)

Clinical Presentation		
Extrapulmonary:	Meningitis, bone, joint infection, draining lesions	
Pulmonary:	Confirmed or suspected pulmonary tuberculosis (may include pneumonia, cough, fever, night sweats, weight loss), laryngeal tuberculosis	
Infectious Substances		
Extrapulmonary:	Drainage	
Pulmonary:	Exhaled airborne particles	
How it is Transmitted		
Extrapulmonary:	Aerosolized wound drainage	
Pulmonary:	Airborne	
Precautions Needed*		
Extrapulmonary:	Airborne Precautions required only if procedures that may aerosolize drainage are being performed or suspicion of miliary tuberculosis with pulmonary involvement	
Pulmonary:	Airborne Precautions	

(Continued on next page)



Suspected/Known Disease or Microorganism

## Tuberculosis (TB) -

Extrapulmonary (Mycobacterium tuberculosis); (also M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG)

Pulmonary disease (Mycobacterium tuberculosis); (also M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG)

(Continued from previous page)

#### **Duration of Precautions**

Extrapulmonary:	While viable organisms are in drainage	
Pulmonary TB smear status:	Rifampin-susceptible	Confirmed or suspect rifampin-resistant
Smear-negative	Precautions can be discontinued once there is clinical evidence of improvement and a minimum of two weeks of effective therapy has been completed.	Discontinuing airborne precautions may be considered once there is clinical improvement, second-line drug susceptibility results are
Smear-positive	Precautions can be discontinued once there is clinical evidence of improvement, a minimum of 2 weeks of effective therapy has been completed and there are 3 consecutive negative acid-fast bacilli sputum smears.	available, a minimum of 4 weeks of effective therapy has been completed and, for those initially smear-positive, three consecutive sputum smears are negative.
Persistent smear-positive	Discontinuation of precautions may be considered once there is clinical evidence of improvement and a minimum of 4 weeks of effective therapy has been completed.	

(Continued on next page)



Suspected/Known Disease or Microorganism

### Tuberculosis (TB) -

Extrapulmonary (Mycobacterium tuberculosis); (also M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG)

Pulmonary disease (Mycobacterium tuberculosis); (also M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG)

(Continued from previous page)

Incubation Period	
All Cases:	Weeks to years
Period of Communicability	
Extrapulmonary:	Only during procedures which may result in aerosolization of infected drainage
Pulmonary:	While organisms are in sputum

#### Comments

### **Extrapulmonary:**

- Physician to notify Medical Officer of Health of case by fastest means possible
- Assess for concurrent pulmonary tuberculosis
- Avoid procedures that may generate aerosols from drainage

### **Pulmonary:**

- Physician to Notify Medical Officer of Health of case by fastest means possible.
- Contact Infection Prevention and Control for discontinuation of precautions
- Young children with tuberculosis are rarely infectious as they usually do not cough or have cavitary disease so may not require **Airborne Precautions**. **Airborne Precautions** should be implemented until an expert in tuberculosis management deems the patient no*n*-infectious.
- Household/close contacts visiting pediatric patients admitted with suspected TB should remain in the
  patient's room and when leaving the room should wear a procedure mask until active TB disease can be
  ruled out in the visiting contacts.

If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations.

(Continued on next page)



<sup>\*</sup>Precautions required are in addition to Routine Practices

Suspected/Known Disease or Microorganism

### Tuberculosis (TB) -

Extrapulmonary (Mycobacterium tuberculosis); (also M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG)

Pulmonary disease (Mycobacterium tuberculosis); (also M. africanum, M. bovis, M. caprae, M. microti, M. pinnipedii, M. canetti, M. bovis BCG)

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### **Comments** (continued)

• Air Clearance Time (also known as Discharge Settle Time)

Non-negative pressure rooms:

• Do not admit a new patient into this room for at least 2 hours. If entering room before 2 hours wear an N95 respirator

Negative pressure rooms:

- Do not admit a new patient into this room for at least 45 minutes. If entering room before 45 minutes wear an N95 respirator
- Alternatively, if specific air exchange rates for the room are known, refer to <u>Table 1: Air</u> <u>Clearance Rates</u> to air clearance times

References: PHAC (2012), CDC (2016), GOVT AB (2013), Cdn.TB Std.



Suspected/Known Disease or Microorganism  Tularemia (Francisella tularenis)	
Clinical Presentation Fever, lymphadenopathy, pneumonia	
Infectious Substances Acquired from contact with infected animals	How it is Transmitted  No person-to-person transmission
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	
Incubation Period 1-14 days	Period of Communicability  Not applicable

#### **Comments**

- Physician to notify Medical Officer of Health of case by fastest means possible
- May be bioterrorism related



Suspected/Known Disease or Microorganism

## Typhoid or Paratyphoid fever (Salmonella typhi, Salmonella paratyphi)

#### **Clinical Presentation**

Sustained fever, headache, malaise, anorexia

Infectious Substances Feces, urine	How it is Transmitted Direct contact, indirect contact and foodborne
Precautions Needed*	Contact Precautions If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment

### **Duration of Precautions**

Until symptoms have stopped for 48 hours AND after at least one normal/baseline or formed bowel movement

OR until patient is continent and has good hygiene

Incubation Period	Period of Communicability
3-60 days for enteric fever	Variable

#### **Comments**

\*Precautions required are in addition to Routine Practices

Physician to notify Medical Officer of Health of case by fastest means possible

References: PHAC (2012)



Typhus fever (Rickettsia typ	hi, Rickettsia prowazekii)

#### **Clinical Presentation**

Suspected/Known Disease or Microorganism

Fever, rash

Infectious Substances	How it is Transmitted
Acquired from bite of fleas or lice	No person-to-person transmission

Precautions Needed Routine Practices

### **Duration of Precautions**

Not applicable

Incubation Period	Period of Communicability
5-14 days	Not applicable

#### **Comments**

- Physician to notify Medical Officer of Health of case by fastest means possible
- If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations

References: PHAC (2012)



U

Urinary tract infection



Suspected/Known Disease or Microorganism	
Urinary tract infection	
Clinical Presentation  May vary depending on individual but often involves suprapubic/back pain.	pain/burning during urination, frequency, urgency,
Infectious Substances Urine	How it is Transmit Direct and Indirect contact
Precautions Needed	Routine Practices
Duration of Precautions Not applicable	<u> </u>
Incubation Period Variable	Period of Communicability Variable

### **Comments**

- See specific organism once identified
- Additional precautions not required unless infection caused by a multi-drug-resistant organism

References: CDC (2007)



### V

Vancomycin-intermediate Staphylococcus aureus (VISA)

Vancomycin-resistant *Enterococcus* (VRE)

Vancomycin-resistant Staphylococcus aureus (VRSA)

Varicella zoster virus – Chickenpox

Chickenpox – Exposed susceptible contact

Chickenpox – Known case

Varicella zoster virus – Herpes Zoster: Shingles

Shingles - Disseminated Shingles

Shingles - Exposed susceptible contact

Shingles - Immunocompromised patient, localized (1 or 2 dermatomes)

Shingles - Localized (1 or 2 dermatomes AND lesions that CANNOT be covered with dressings or clothing

Shingles - Localized (1 or 2 dermatomes AND lesions that CAN be covered with dressings or clothing

Viral hemorrhagic fever (VHF)

Suspected/Known Disease or Microorganism	
Vancomycin-intermediate Staphylococcus aureus (VISA)	
Clinical Presentation Infection or colonization of any body site	
Infectious Substances	How it is Transmitted
Infected or colonized secretions/excretions Respiratory secretions if pneumonia	Direct contact and indirect contact, and large droplets (if pneumonia)
Precautions Needed*	Contact Precautions
	Contact and Droplet Precautions if patient has active VISA pneumonia
<b>Duration of Precautions</b>	
As directed by Infection Prevention and Control	
Incubation Period	Period of Communicability
Variable	Duration of colonization
Comments	
*Precautions required are in addition to Routine	<u>Practices</u>



### Vancomycin-resistant *Enterococcus* (VRE)

#### **Clinical Presentation**

Infection or colonization of any body site (infections of the urinary tract, the bloodstream, or of wounds associated with catheters or surgical procedures)

Infectious Substances Infected or colonized secretions, excretions	How it is Transmitted  Direct contact and indirect contact
Precautions Needed*	Routine Practices

#### **Duration of Precautions**

As directed by Infection Prevention and Control

Incubation Period	Period of Communicability
Variable	Duration of colonization

#### **Comments**

\*Precautions required are in addition to Routine Practices



Suspected/Known Disease or Microorganism		
Vancomycin-resistant Staphylococcus aureus (VRSA)		
Clinical Presentation Infection or colonization of any body site		
Infectious Substances	How it is Transmitted	
Infected or colonized secretions, excretions Respiratory secretions if pneumonia	Direct contact, indirect contact, and large droplets (if pneumonia)	
Precautions Needed*	Contact Precautions	
	Contact and Droplet Precautions if patient has active VRSA pneumonia	
<b>Duration of Precautions</b>		
As directed by Infection Prevention and Control		
Incubation Period	Period of Communicability	
Variable	Duration of colonization	
Comments		
*Precautions required are in addition to Routine Practices		



Suspected/Known Disease or Microorganism	Chickenpox: Exposed susceptible contact	Chickenpox: Known case
Varicella zoster virus – Chickenpox	Exposed susseptible contact	Tillowii 6036
Clinical Presentation	Asymptomatic	Generalized, Itchy, vesicular rash with lesions in varying stages of weeping, crusting, mild fever. Rash usually appears first on the head, chest and back before spreading to the rest of the body. Vesicular lesions are mostly concentrated on the chest and back.
Infectious Substances	If lesions develop: vesicular fluid and exhaled airborne particles	Vesicular fluid, respiratory secretions
How it is Transmitted	Exhale droplets, Airborne	Airborne, direct contact, indirect contact
Precautions Needed*	Airborne Precautions	Airborne and Contact Precautions
Duration of Precautions	From 8 days after first contact until 21 days after last contact with person with active disease (or 28 days if given VZIG)	Until all lesions have crusted and dried
Incubation Period	10-21 days or 28 days if given VZIG	10-21 days
Period of Communicability	Once incubation period has ended and no lesions have developed	Until all lesions have crusted and dried 2 days before lesions appear until all lesions have crusted and dried
*Precautions required are in addition to Routine Practices	<ul> <li>Non-immune persons should not enter except in urgent or compassionate circumstances. If immunity is unknown, assume person is non-immune.</li> <li>Susceptible non-immune healthcare providers should not enter the room during the incubation period of exposed patients (day 8 from exposure to additional 21 or 28 days if given VZIG) if immune staff are available. If non-immune staff must enter the room an N95 respirator must be worn</li> <li>Individuals with known immunity (history of past illness or vaccination with 2 appropriately timed doses of varicella vaccine or laboratory evidence of immunity) are not required to wear the N95 respirator when entering the room</li> <li>Defer non-urgent admissions if there is an exposed susceptible contact within their incubation period.</li> <li>Newborn: If mom develops chickenpox &lt;5 days before giving birth or 48 hours after, place newborn on Airborne Precautions. Newborn needs to be assessed for VZIG and put on Airborne Precautions till assessed by IPC.</li> </ul>	<ul> <li>All Cases:         <ul> <li>Exercise care when handling dressings, clothing or other materials that may be contaminated with vesicular fluid</li> <li>Non-immune persons should not enter except in urgent or compassionate circumstances. If immunity is unknown, assume person is non-immune</li> <li>Susceptible healthcare providers should not enter the room if immune staff are available. If they must enter the room an N95 respirator must be worn</li> <li>Individuals with known immunity (history of past illness or vaccination with 2 appropriately timed doses of varicella vaccine or laboratory evidence of immunity) are not required to wear the N95 respirator when entering the room</li> <li>Defer non-urgent admissions if chickenpox or disseminated zoster is present</li> </ul> </li> <li>Air Clearance Time (also known as Discharge Settle Time)         <ul> <li>Non-negative pressure rooms:</li> <li>Do not admit a new patient into this room for at least 2 hours. If entering room before 2 hours and non-immune, wear an N95 respirator</li> <li>Negative pressure rooms:</li> <li>Do not admit a new patient into this room for at least 45 minutes. If entering room before 45 minutes, and non-immune, wear an N95 respirator</li> </ul> </li> </ul>
References: PHAC (2012), CDC (2007)	<ul> <li>If lesions develop, the contact becomes a known case. Follow recommendations for a known case and place patient on Airborne and Contact Precautions</li> <li>Exposure to either chickenpox or shingles can result in a chickenpox infection in Varicella susceptible individuals.</li> </ul>	<ul> <li>Alternatively, if specific air exchange rates for the room are known, refer to Table 1: Air Clearance Rates to determine air clearance times</li> <li>Susceptible high-risk contacts should be given VZIG as soon as possible within 10 days of exposure</li> <li>Immunocompromised patient additional precautions need to be maintained for a longer duration due to prolonged viral shedding</li> </ul>



Suspected/Known Disease or Microorganism Varicella zoster virus – Herpes Zoster: Shingles	Shingles - Localized (1 or 2 dermatomes AND lesions that CAN be covered with dressings or clothing	Shingles - Localized (1 or 2 dermatomes AND lesions that CANNOT be covered with dressings or clothing	Shingles - immunocompromised patients, localized (1 or 2 dermatomes)	Shingles - Disseminated	Shingles - Exposed susceptible contact
<b>Clinical Presentation</b>	Ve	sicular lesions in a dermatomal distribution, refer to <u>Dermatome Ch</u>	<u>art</u>	Vesicular lesions that involve multiple areas (>2 dermatomes) with possible visceral complications, refer to <u>Dermatome Chart</u>	Asymptomatic
Infectious Substances		Vesicular fluid	Vesicular	fluid, respiratory secretions	Exhaled airborne particles
How it is Transmitted	Direc	t contact and indirect contact	Airborne, din	ect contact, indirect contact	Airborne
Precautions Needed*	Routine Practices	Contact Precautions	Airborne and	Contact Precautions	Airborne Precautions
<b>Duration of Precautions</b>	Not applicable  Until all lesions have crusted and dried		From 8 days after first contact until 21 days after last contact with person with active disease (or 28 days if given VZIG)		
Incubation Period	Not applicable	10-2	1 days or 28 days if given VZIG		
Period of Communicability	Not applicable Until all lesions have crusted and dried			Once incubation period has ended and no lesions have developed	
*Precautions required are in addition to Routine Practices.	<ul> <li>Exercise care when handling dressings, clothing or other materials that may be contaminated with vesicular fluid</li> </ul>			Newborn: If mom develops chickenpox <5 days before giving birth or 48 hours after, place newborn on Airborne Precautions. Newborn needs to be assessed for VZIG and put on Airborne     If lesions develop, the contact becomes a known case. Follow recommendations for a known case and place patient on Airborne and Contact Precautions	
<b>References:</b> PHAC (2012), CDC (2007)			For patients on Airborne Precautions: Air Clearance Time (also known as Discharge Sett Time)  Non-negative pressure rooms:  Do not admit a new patient into this room for at least 2 hours. If entering room before 2 hours and non-immune, wear an N95 respirator  Negative pressure rooms:  Do not admit a new patient into this room for at least 45 minutes. If entering room before 45 minutes, and non-immune, wear an N95 respirator  Alternatively, if specific air exchange rates for the room are known, refer to Table 1:  Air Clearance Rates to determine air clearance times  Susceptible high-risk contacts should be given VZIG as soon as possible within 10 days of exposure  Non-immune persons should not enter except in urgent or compassionate circumstances. If immunity is unknown, assume person is non-immune  Individuals with known immunity (history of past illness or vaccination with 2 appropriately timed doses of varicella vaccine or laboratory evidence of immunity) are not required to wear the N95 respirator when entering the room		



### W

West Nile (West Nile virus)
Western equine encephalitis
Whooping cough
Wound infection – (Staphylococcus aureus, Streptococcus Group A, many other bacteria)
Wuhan Coronavirus

Suspected/Known	Dieggeg	or Microore	naniem
Suspected/Milowii	Disease		uannsin

## **West Nile (West Nile virus)**

#### **Clinical Presentation**

Sudden onset fever, headache, muscle pain and weakness, abdominal pain, nausea, vomiting and diarrhea, may have rash

Infectious Substances	How it is Transmitted
Culex mosquito	No person-to-person transmission
Precautions Needed	Routine Practices

### **Duration of Precautions**

Not applicable

Incubation Period	Period of Communicability
Variable, usually 3-21 days	Communicability of disease not seen except by organ transplant, breast milk or transplacental

#### **Comments**

Physician to notify Medical Officer of Health

Suspected/Known Disease or Microorga	anism	
Western equine encephalitis		
Clinical Presentation		
Fever, encephalomyelitis		
Infectious Substances	How it is Transmitted	
Aedes and Culex mosquito	Bite of mosquito	
	No person-to-person transmission	
<b>Precautions Needed</b>	Routine Practices	
Duration of Precautions Not applicable		
Incubation Period	Period of Communicability	
5-15 days	Not applicable	
Comments		

\_ \_

References: PHAC (2012)

Virus found in birds, bats, and possible rodents

**Physician to notify Medical Officer of Health** 



## Wound infection – (*Staphylococcus aureus*, *Streptococcus* Group A, many other bacteria)

#### **Clinical Presentation**

Draining wound, redness or heat around wound, inflammation, rash, blisters, scaly patches

Infectious Substances	How it is Transmitted
Drainage	Direct contact and indirect contact
Precautions Needed*	Routine Practices  Minor drainage contained by dressing  Contact Precautions  Major drainage not contained by dressing

#### **Duration of Precautions**

Until symptoms resolve or return to baseline

Incubation Period	Period of Communicability
Variable	Variable

#### **Comments**

\*Precautions required are in addition to Routine Practices

See specific organism once identified

References: PHAC (2012)





No organisms at this time





Yaws (Treponema pallidum)

Yellow fever

Yersinia enterocolitica, Yersinia pseudotuberculosis

Suspected/Known Disease or Microorgan	nism	
Yaws (Treponema pallidum)		
Clinical Presentation		
Cutaneous lesions, late-stage destructive	lesions of skin and bone	
Infectious Substances	How it is Transmitted	
Exudates from skin lesions	Direct contact and indirect contact	
Precautions Needed	Routine Practices	
Duration of Precautions	I	
Not applicable		
Incubation Period	Period of Communicability	
9 days to 3 months	Variable	
Comments		

References: PHAC (2012)



Suspected/Known Disease or Microorganism Yellow fever		
Infectious Substances	How it is Transmitted	
Human blood	Bite of mosquito	
	Person-to-person transmission not seen	
Precautions Needed	Routine Practices	
Duration of Precautions		
Not applicable		
Incubation Period	Period of Communicability	
3-6 days	Not applicable	
Comments		

If the patient is deceased, refer to the Alberta Bodies of Deceased Persons Regulations.

References: PHAC (2012), CDC (2007)

**Physician to notify Medical Officer of Health** 



Yersinia enterocolitica, Yersinia pseudotuberculosis	
Clinical Presentation Diarrhea	
Infectious Substances Feces	How it is Transmitted  Direct contact, indirect contact and foodborne
Precautions Needed*	Contact Precautions If patient • is incontinent • has stools that cannot be contained • has poor hygiene and may contaminate his/her environment
Duration of Precautions Until symptoms have stopped for 48 hour	rs AND after at least one normal/baseline or formed bowel

movement

OR until patient is continent and has good hygiene

Suspected/Known Disease or Microorganism

Incubation Period	Period of Communicability
3-7 days	Until symptoms resolve

### **Comments**

\*Precautions required are in addition to Routine Practices

References: PHAC (2012)



Ζ

Zika virus *(Flavivirus)* Zoster

### Zika virus (Flavivirus)

#### **Clinical Presentation**

Fever, skin rashes, conjunctivitis, muscle and joint pain, malaise, and headache

### Infectious Substances How it is Transmitted

Blood, possibly body fluids (some evidence for sexual transmission)

Breastmilk\*

Mosquito bite (mainly Aedes aegypti in tropical regions), potential by ticks, maternal infant transmission in utero, possibly sexually transmitted

Precautions Needed Routine Practices

### **Duration of Precautions**

Not applicable

#### Incubation Period

2-12 days

### **Period of Communicability**

Not applicable

#### Comments

- \* Zika RNA has been detected in breastmilk: however, at the time of publication there have not been any documented reports of transmission to infants through breastfeeding. The opinion of CATMAT and the World Health Organizations is that "the benefits of breastfeeding for the infant and mother outweigh any potential risk of Zika virus transmission through breastmilk"
- Infection in humans is acquired most frequently during blood feeding by the infected mosquito
- Physician to notify Medical Officer of Health

References: PHAC (2018)

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